AMORTIZATION SCHEDULE
PRINT

A

Utility Program

for

Business

Revisions 01/01

May 1, 1982

developed by

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making technology uncomplicated ... for People^{SM}

ACKNOWLEDGMENT

The Amortization Schedule Print program was written by Patrick L. Fitzpatrick of Amarillo, TX.

NOTICE

Every effort has been made to eliminate any problems with the Amortization Schedule Print program. While as many conceivable situations as possible have been covered, Micro Mike's, Inc., realizes some problems may arise under unusual or extreme circumstances. Should you encounter a problem in calculations or a "bug," in the programs, please contact Micro Mike's, Inc., immediately.

Changes in the program format may be made by the programmer. Contact Micro Mike's for additional information on custom programming.

Program changes made by programmers not authorized by Micro Mike's, Inc., will not be supported by Micro Mike's, Inc.

Updates or revisions of the Amortization Schedule print will be made only on receipt of the original program disk. Only those who have returned registrations cards will be notified about new releases or major problems.

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INTRODUCTION

Amortization Schedule Print by Micro Mike's, Inc., is a utility program for business, designed to provide rapid information in determining the monthly payments and interest on loans.

Written for the non-computer oriented user, Amortization Print requires only a basic understanding of the principals of amortization. The user is guided through the programs by a series of prompts or instructions and the program will make all of the calculations and display the information on the screen or print the schedule on paper.

The range of Amortization Print goes from simply determining a monthly payment based on the principal balance and interest rate to printing the yearly totals or grand totals or a detailed schedule which will show the date payment is due, each payment, amount to principal, amount for interest, previous balance and new balance.

Variable payments can be entered with the program calculating the balloon payment at the end of the note period. Short payments at the beginning will calculate interest as paid and will carry forward the amount as additional principal.

The program offers the capability of increasing or decreasing the calculated monthly payment, giving a smaller or balloon last payment.

Through the variable print program, quarterly, semiannual or any combination of payments can be established.

The monthly interest is calculated by the computer by taking one-twelfth of the annual interest on the remaining principal balance.

1.1 Hardware Requirements

The Amortization Schedule Print program as it is delivered requires a microcomputer with a Z8Ø processor, 48K RAM internal memory, a **MicroDoZ** or CP/M operating system, **baZic**, a minimum of one, 5" double-density disk drive or 8" single-density disk drive and a printer capable of producing reports 8Ø columns wide.

The program requires 5ØK bytes of disk space and produces only a name file which is used in the heading of an amortization schedule.

Micro Mike's strongly recommends that one or more copies of the Amortization Print master disk be made and those copies used as working copies. The master should be stored in a safe place.

PROGRAM OPERATION

To operate Amortization Schedule Print, place a working copy of the program disk in Drive 1 or A. Turn on the computer or press the reset switch. When run for the first time, the following will appear on the screen:

```
                    Amortization Schedule Print
        Enter Field Number to Change (Ø to Proceed)
        #

        1. Prepared for  :  ******************************
        2. Description    :

        3. Prepared by    :
        4. Company Name    :
        5. Address        :
        6. City,State,Zip:

        7. Date Prepared  :  ØØ/ØØ/ØØ
```

2.1 Amortization Schedule Heading

Data for Fields 1 and 2, Prepared for and Description, will be filled in each time an amortization schedule is prepared. Fields 3 through 7 are recorded and remain the same until changed. Company name and address become the heading for the first page of the printout.

The Amortization Schedule Print program will start with the cursor at the first asterisk in a prompt character field of 3Ø. Enter the name of the person or company for whom the schedule is being prepared. If the prompt character field is not filled, press Return and the cursor will go to the description field, also 3Ø characters maximum.

Fields 3 through 7 must be called manually. The Prepared by and company name and address fields are each 3Ø spaces long.

For the date, press 7 and the cursor will go to the first M in a field as follows:

MM/DD/YY

Enter the date. The following is an example of a heading after all of the fields have been entered:

                    Amortization Schedule Print
         Enter Field Number to Change (0 to Proceed)
         #
         1. Prepared for   : John Testor Construction Co.
         2. Description   : Note for Working Capital

         3. Prepared by   : H. Leftwich Marsh
         4. Company Name   : The Testing Company
         5. Address   : 1978 Armadillo Blvd.
         6. City,State,Zip: Amarillo, TX 79100

         7. Date Prepared : 06/01/82

If no change is to be made, press 0 to Proceed and the following
will appear on the screen:

                    Amortization Schedule Print
         Enter Information

         Orig Principal Balance : $$$$$$$$$$$
         % of Down Payment   :
         Down Payment   :
         Principal Balance   :
         Interest Rate   :
         Term in Months   :
         Monthly Payment   :

2.2 Payment Information

The cursor will be on the first $ (dollar sign) in a prompt
character field of 11 (10 digits plus the decimal point). This
is the total cost of the item or the amount of the loan. Enter
that figure and the cursor will move to Percent of Down Payment:

         Orig Principal Balance : 100000.00
         % of Down Payment   : %%%%%
         Down Payment   :
         Principal Balance   :
         Interest Rate   :
         Term in Months   :
         Monthly Payment   :

Percent of down payment is entered in whole numbers, such as 10
or 20. If the interest is fractional enter a decimal such as
22.5. Enter a number and the program will calculate the down
payment and enter that figure in the next field, then calculate
the principal balance and enter that in the next field.

If the down payment is known, enter a zero (0) and press Return
and the cursor will move to the Down Payment field. Enter the
down payment and the program will calculate the principal
balance.

If no down payment is to be made enter zero for percent of down payment and for down payment. The program will insert the original principal balance in the principal balance field.

The cursor will be in the first % (percent) sign in a prompt character field of 20 for the interest rate as follows:

```
Orig Principal Balance : 100000.00
% of Down Payment      : .00
Down Payment           : .00
Principal Balance      : 100000.00
Interest Rate          : %%%%%%%%%%%%%%%%%%%%
Term in Months         :
Monthly Payment        :
```

Any data previously entered at this point may be changed by pressing ESCape or CTRL B (hold the CTRL key down and press B) to move the cursor back to the field as needed. Make any changes and re-enter the data as the cursor is moved forward to get back to the interest rate field.

Enter the interest rate without the decimal. If the interest rate is fractional, enter the decimal and the rest of the rate. The program will use only 10 places. If the prompt character field is not filled, press Return and the cursor will move to the Term in Months Field as follows:

```
Orig Principal Balance : 100000.00
% of Down Payment      : .00
Down Payment           : .00
Principal Balance      : 100000.00
Interest Rate          : 17.2910500000
Term in Months         : ###
Monthly Payment        :
```

Enter the life of the loan in months and the program will calculate and display the monthly payment. The following will be displayed with the prompt:

```
Is Monthly Payment Correct (Y or N)
*
```

```
Orig Principal Balance : 100000.00
% of Down Payment      : .00
Down Payment           : .00
Principal Balance      : 100000.00
Interest Rate          : 17.29105
Term in Months         : 12
Monthly Payment        : 9135.00
```

An N for No response will return the cursor to the Monthly Payment field where you may enter another payment amount. If the monthly payment is larger or smaller, the last payment will be correspondingly smaller or larger.

If the monthly payment is to be much larger, consider a shorter term in months because interest is calculated on the number of months.

The N for No option also is designed to produce a schedule prepared by another person who set the monthly payment.

To change the term in months, you must begin again by pressing N for No on the next prompt. Enter the new monthly payment. If the prompt character field is not filled, press Return and the cursor will go back to the top the screen with the prompt:

        Is All of the Information Correct (Y or N)
        *

        Orig Principal Balance :   100000.00
        % of Down Payment   :   .00
        Down Payment   :   .00
        Principal Balance   :   100000.00
        Interest Rate   :   17.2910500000
        Term in Months   :   12
        Monthly Payment   :   9135.00

With a No response, the program will erase the screen and you may re-enter the data.

With a Yes Response, the next prompt will be:

        Do You Want Variable Payments (Y or N)
        *

        Orig Principal Balance :   100000.00
        % of Down Payment   :   .00
        Down Payment   :   .00
        Principal Balance   :   100000.00
        Interest Rate   :   17.2910500000
        Term in Months   :   12
        Monthly Payment   :   9135.00

2.2.1 Equal Monthly Payments

If equal monthly payments are wanted, press N for No and the next prompt will be:

        Enter Print Option (A)ll, Y)ear, F)inal totals, N)one
        *

        Orig Principal Balance :   10000.00
        % of Down Payment   :   0
        Down Payment   :   0
        Principal Balance   :   10000.00
        Interest Rate   :   20.00
        Term in Months   :   12
        Monthly Payment   :   9135.00

Responses are limited to A, Y, F or N

A for All will direct the program to print, on the screen or on paper if later elected, the entire schedule, including date of each payment, the monthly payment, amount to principal, amount for interest, the old balance and the new balance.

Y for Year will direct the program to print only the totals for each year, including the amount paid, the amount for interest, and the amount for principal.

F for Final Totals will produce the totals only for the total amount paid with the total broken down into principal and interest.

N for None will erase the screen and a return to the beginning of the program:

        Prepared for : *****************************

Enter the print option and the next prompt will be:

        Enter Day of Month Payment is Due
        ##

Followed by the prompt:

        Enter Month Number of First Payment
        ##

Which is then followed by:

        Enter Year of First Payment
        ####

The next prompt will be:

        Enter Option (Ø=CRT, 1=Printer)
        #

A 1=Printer response will direct the program to activate the printer. Be sure that the printer is turned on and is on line.

With a Ø=CRT response, the information will be displayed on the screen with the prompt each time the screen is filled:

        Press Return to Continue

After the printout is completed or the schedule has been displayed on the screen, the next prompt will be:

                    Amortization Schedule Print
        Do you want more copies (Y or N)
        *

A N for No response will start the program at the beginning:

        Prepared for: ******************************

With a Y for Yes response, the program will start again at the prompt:

                        Amortization Schedule Print
        Enter Print Option (A)ll, Y)ear, F)inal totals, N)one
        *

After the print option is selected, the program will ask next for day, month and year of first payment and then whether to display the schedule on the screen or activate the printer.

2.2.1.1 Example of Full Schedule

The following schedule is an example of a $100,000.00 note based on 12 months at 17.29105 percent and with equal monthly payments:

The Testing Company
1978 Armadillo Blvd.
Amarillo, TX 79100

Date: 06/01/82

Prepared for: John Testor Construction Co.
Description : Note for Working Capital
Prepared by : H. Leftwich Marsh

```
Original Balance :   $100,000.00
Down Payment     :         $.00
Prinicpal Balance:   $100-000.00
```

```
Interest Rate    :        17.291050000%
Term in Months   : 12
Monthly Payment  :     $9135.00
```

===
AMORTIZATION SCHEDULE

No.	Date Due	Payment Amount	Period Interest	Principle Reduction	Previous Balance	Current Balance
1	7/15	9,135.00	1,440.92	7,694.08	100,000.00	92,305.92
2	8/15	9,135.00	1,330.06	7,804.94	92,305.92	84,500.98
3	9/15	9,135.00	1,217.59	7,917.41	84,500.98	76,583.57
4	10/15	9.135.00	1,103.51	8,031.49	76,583.57	68-552.08
5	11/15	9,135.00	987.78	8,147.22	68,552.08	60,404.86
6	12/15	9,135.00	870.39	8,264.61	60,404.86	52.140.25

| 1982 Total | | 54,810.00 | 6,950.25 | 47,859.75 | | |

===

No.	Date Due	Payment Amount	Period Interest	Principle Reduction	Previous Balance	Current Balance
7	1/15	9,135.00	751.30	8,383.70	52,140.25	43.756.55
8	2/15	9,135.00	630.50	8,504.50	43,756.55	35,252.05
9	3/15	9,135.00	507.95	8,627.05	35,252.05	26,625.00
10	4/15	9,135.00	383.65	8,751.35	26,625.00	17,873.65
11	5/15	9,135.00	257.55	8,877.45	17,873.65	8,996.20
12	6/15	9,125.83	129.63	8,996.20	8,996.20	.00

| 1983 Total | | 54,800.83 | 2,660.58 | 52,140.25 | | |

===
FINAL TOTALS

          $109,610.83 $9,610.83 $100,000.00

2.2.1.2 Example of Yearly and Final Totals

The following is an example of a schedule showing only the yearly
and the final totals:

```
                    The Testing Company
                    1978 Armadillo Blvd.
                    Amarillo, TX  79100
```

Date: 06/01/82

Prepared for: John Testor Construction Co.
Description : Note for Working Capital
Prepared by : H. Leftwich Marsh

```
Original Balance  :    $100,000.00
Down Payment      :          $.00
Prinicpal Balance:     $100,000.00

Interest Rate     :        17.291050000%
Term in Months    :  12
Monthly Payment   :      $9135.00
```

```
=================================================================
                    AMORTIZATION SCHEDULE
-----------------------------------------------------------------
```

No.	Date Due	Payment Amount	Period Interest	Principle Reduction	Previous Balance	Current Balance
1982 Total		54,810.00	6,950.25	47,859.75		
1983 Total		54,800.83	2,660.58	52,140.25		

```
=================================================================
FINAL TOTALS
          $109,610.83   $9,610.83   $100,000.00
```

2.2.1.3 Example of Final Totals Only

The following is an example of a schedule for the $100,000.00
note, showing only the total of all of the payments and the total
interest:

                         The Testing Company
                         1978 Armadillo Blvd.
                         Amarillo, TX 79100

Date: 06/01/82

Prepared for: John Testor Construction Co.
Description : Note for Working Capital
Prepared by : H. Leftwich Marsh

Original Balance : $100,000.00
Down Payment   : $.00
Prinicpal Balance: $100-000.00

Interest Rate   :   17.291050000%
Term in Months   : 12
Monthly Payment : $9135.00

===
                       AMORTIZATION SCHEDULE

No.	Date Due	Payment Amount	Period Interest	Principle Reduction	Previous Balance	Current Balance

===
FINAL TOTALS
          $109,610.83 $9,610.83 $100,000.00

2.3.2 Variable Payments

If variable payments are wanted, follow the same procedure to the
prompt:

     Do You Want Variable Payments (Y or N)
     *

     Orig Principal Balance : 100000.00
     % of Down Payment   : .00
     Down Payment   : .00
     Principal Balance   : 100000.00
     Interest Rate   : 17.2910500000
     Term in Months   : 12
     Monthly Payment   : 9135.00

Respond with Y for Yes and the cursor will go to the first #
symbol in a field of three for the payment schedule. The display
will be as follows:

```
        Do You Want Variable Payments (Y or N)
        Y

        Orig Principal Balance :  10000.00    No. to  No.     Amt
        % of Down Payment      :  0           ###
        Down Payment           :  0
        Principal Balance      :  10000.00
        Interest Rate          :  20.00
        Term in Months         :  12
        Monthly Payment        :  9135.00
```

Enter Payment 1 and press Return and the cursor will go to the
next field for Payment and then the amount as follows:

```
        Do You Want Variable Payments (Y or N)
        Y

        Orig Principal Balance :  100000.00   No. to  No.     Amt
        % of Down Payment      :  .00          1       3       .00
        Down Payment           :  .00          4      11 10000.00
        Principal Balance      :  100000.00   12      12       .00
        Interest Rate          :  17.29105
        Term in Months         :  12
        Monthly Payment        :  9135.00
```

Enter the last payment and a zero amount. The program will
calculate the final payment.

When the last payment is entered, the next prompt will be:

```
        Enter Print Option (A)ll, Y)ear, F)inal Totals, N)one
        *

        Orig Principal Balance :  100000.00   No. to  No.     Amt
        % of Down Payment      :  .00          1       3       .00
        Down Payment           :  .00          4      11 10000.00
        Principal Balance      :  100000.00   12      12       .00
        Interest Rate          :  17.29105
        Term in Months         :  12
        Monthly Payment        :  9135.00
```

Select A for All and the program will print the entire schedule,
including each payment.

Select Y for yearly totals, and the program will print only the
amount paid during the calendar year and the amount paid to
principal and interest.

Select F for final totals and only the totals will be displayed.

Select N for None and the screen will be erased and the program
returns to the beginning:

```
        Prepared for:   ******************************
```

After the print option is selected, the program will call for:

    Enter Day of Month Payment is Due
    ##

Followed by the prompt:

    Enter Month Number of First Payment
    ##

Which is then followed by:

    Enter Year of First Payment
    ####

The next prompt will be:

    Enter Option (0=CRT, 1=Printer)
    #

A 1=Printer response will activate the printer. Be sure that the
printer is turned on and is on line.

With a 0=CRT response, the information will be displayed on the
screen with the prompt at the bottom of the screen:

    Press Return to Continue

After the printout is completed or the schedule has been
displayed on the screen, the next prompt will be:

                Amortization Schedule Print
    Do you want more copies (Y or N)
    *

With a N for No response, the program will return to Prepared for
field to start another schedule.

With a Y for Yes response, the program will return to the prompt:

                Amortization Schedule Print
    Enter Print Option (A)ll, Y)ear, F)inal totals, N)one
    *

After the print option is selected, the program will ask next for
day, month and year of first payment and then whether to display
the schedule on the screen or activate the printer.

2.2.2.1 Example of Variable Payment Schedule

The following is an amortization schedule utilizing variable
payments. Note that the first payment is not due for 120 days
and the interest is carried as a negative credit to principal.
Eight payments of $10,000 per month are made, and the last pay-
ment is a balloon payment of $33,363.84.

                    The Testing Company
                    1978 Armadillo Blvd.
                    Amarillo, TX 79100

Date: 06/01/82

Prepared for: John Testor Construction Co.
Description : Note for Working Capital
Prepared by : H. Leftwitch Marsh

Original Balance : $100,000.00
Down Payment   : $.00
Prinicpal Balance: $100,000.00

Interest Rate   :   17.291050000%
Term in Months   : 12
Monthly Payment : Variable

===
                    AMORTIZATION SCHEDULE

No.	Date Due	Payment Amount	Period Interest	Principle Reduction	Previous Balance	Current Balance
1	7/15	.00	1,440.92	-1,440.92	100,000.00	101,440.92
2	8/15	.00	1,461.68	-1,461.68	101,440.92	102,902.60
3	9/15	.00	1,482.75	-1,482.75	102,902.60	104,385.35
4	10/15	10,000.00	1,504.11	8,495.89	104,385.35	95,889.46
5	11/15	10,000.00	1,381.69	8,618.31	95,889.46	87,271.15
6	12/15	10,000.00	1,257.51	8,742.49	87,271.15	78,528.66

| 1982 Total | | 30,000.00 | 8,528.66 | 21,471.34 | | |

===

7	1/15	10,000.00	1,131.54	8,868.46	78,528.66	69,660.20
8	2/15	10,000.00	1,003.75	8,996.25	69,660.20	60,663.95
9	3/15	10,000.00	874.12	9,125.88	60,663.95	51,538.07
10	4/15	10,000.00	742.62	9,257.38	51,538.07	42,280.69
11	5/15	10,000.00	609.23	9,390.77	42,280.69	32,889.92
12	6/15	33,363.84	473.92	32,889.92	32,889.92	.00

| 1983 Total | | 83,363.84 | 4,835.18 | 78,528.66 | | |

===
FINAL TOTALS
        $113,363.84 $13,363.84 $100,000.00