



Service Requests

McBride Financial Services

Service Request SR-mf-003 Mortgage Payment Calculator

Organization: McBride Financial Services

Locations:

Requester: Hugh McBride

Description of Request:

Need a program that will calculate mortgage payments.

Background of Request:

Agents in the field offices will need to be able to calculate mortgage payment amounts. In the future, we may want to put a mortgage calculator on our Web site.

Expected Results/Impact when completed:

A program written in Java (without a graphical user interface) that will calculate and display the monthly payment amount to fully amortize a \$200,000.00 loan over a 30 year term at 5.75% interest.

Change Requests

Change Request #1

Requestor: Dwain Hammer - Billings, MT

Write the program in Java (without a graphical user interface) using a loan amount of \$200,000 with an interest rate of 5.75% and a 30 year term. Display the mortgage payment amount and then list the loan balance and interest paid for each payment over the term of the loan. If the list would scroll off the screen, use loops to display a partial list, hesitate, and then display more of the list.

Change Request #2

Requestor: Dwain Hammer - Billings, MT

Write the program in Java (without a graphical user interface) and have it calculate the payment amount for 3 mortgage loans:

- 7 year at 5.35%
- 15 year at 5.5%
- 30 year at 5.75%

Use an array for the different loans. Display the mortgage payment amount for each loan.

Change Request #3

Requestor: Dwain Hammer - Billings, MT

Write the program in Java (without a graphical user interface) and have it calculate the payment amount for 3 mortgage loans:

- 7 year at 5.35%
- 15 year at 5.5%
- 30 year at 5.75%

Use an array for the different loans. Display the mortgage payment amount for each loan and then list the loan balance and interest paid for each payment over the term of the loan. Use loops to prevent lists from scrolling off the screen.

Change Request #4

Requestor: Ninfa Pendleton - Rapid City, SD

Write the program in Java (with a graphical user interface) and have it calculate and display the mortgage payment amount from user input of the amount of the mortgage, the term of the

mortgage, and the interest rate of the mortgage. Allow the user to loop back and enter new data or quit. Please insert comments in the program to document the program.

Change Request #5

Requestor: Ninfa Pendleton - Rapid City, SD

Write the program in Java (with a graphical user interface) and have it calculate and display the mortgage payment amount from user input of the amount of the mortgage and the user's selection from a menu of available mortgage loans:

- 7 years at 5.35%
- 15 years at 5.5%
- 30 years at 5.75%

Use an array for the mortgage data for the different loans. Display the mortgage payment amount followed by the loan balance and interest paid for each payment over the term of the loan. Allow the user to loop back and enter a new amount and make a new selection or quit. Please insert comments in the program to document the program.

Change Request #6

Requestor: Ninfa Pendleton - Rapid City, SD

Write the program in Java (with a graphical user interface) so that it will allow the user to select which way they want to calculate a mortgage: by input of the amount of the mortgage, the term of the mortgage, and the interest rate of the mortgage payment or by input of the amount of a mortgage and then select from a menu of mortgage loans:

- 7 year at 5.35%
- 15 year at 5.5 %
- 30 year at 5.75%

In either case, display the mortgage payment amount and then, list the loan balance and interest paid for each payment over the term of the loan. Allow the user to loop back and enter a new amount and make a new selection, or quit. Insert comments in the program to document the program.

Change Request #7

Requestor: Ninfa Pendleton - Rapid City, SD

Write the program in Java (with a graphical user interface) and have it calculate and display the mortgage payment amount from user input of the amount of the mortgage and the user's selection from a menu of available mortgage loans:

- 7 years at 5.35%
- 15 years at 5.5%
- 30 years at 5.75%

Use an array for the mortgage data for the different loans. Read the interest rates to fill the array from a sequential file. Display the mortgage payment amount followed by the loan balance and interest paid for each payment over the term of the loan. Add graphics in the form of a chart. Allow the user to loop back and enter a new amount and make a new selection or quit. Please insert comments in the program to document the program.

Change Request #8

Requestor: Bud Shepherd - Bismarck, ND

Write the program as a procedural C++ program and using a loan amount of \$200,000, a term of 30 years, and an interest rate of 5.75%. Insert comments in the program to document the program.

Change Request #9

Requestor: Bud Shepherd - Bismarck, ND

Write the program as a procedural C++ program. Calculate and display the mortgage payment amount using the amount of the mortgage, the term of the mortgage, and the interest rate of the mortgage as input by the user. Allow the user to loop back and enter new data or quit. Insert comments in the program to document the program.

Change Request #10

Requestor: Bud Shepherd - Bismarck, ND

Write the program as a procedural C++ program. Calculate and display the mortgage payment amount using the amount of the mortgage, the term of the mortgage, and the interest rate of the mortgage as input by the user. Then, list the loan balance and interest paid for each payment over the term of the loan. On longer-term loans, the list will scroll off the screen. Do not allow the list to scroll off the screen, but rather display a partial list and then allow the user to continue the list.

Allow the user to loop back and enter new data or quit. Insert comments in the program to document the program.

Change Request #11

Requestor: Bud Shepherd - Bismarck, ND

Write the program as a procedural C++ program. Allow the user to input the amount of a mortgage and then select from a menu of mortgage loans:

- 7 year at 5.35%
- 15 year at 5.5%
- 30 year at 5.75%

Use an array for the different loans. Display the mortgage payment amount. Then, list the loan balance and interest paid for each payment over the term of the loan. On longer-term loans, the list will scroll off the screen. Do not allow the list to scroll off the screen, but rather display a partial list and then allow the user to continue the list. Allow the user to loop back and enter new data or quit. Insert comments in the program to document the program.

Change Request #12

Requestor: Shay Freed - Jackson, WY

Write the program as an object-oriented C++ program that calculates and displays the mortgage payment amount from user input of the amount of the mortgage, the term of the mortgage, and the interest rate of the mortgage. Allow the user to loop back and enter new data or quit. Insert comments in the program to document the program.

Change Request #13

Requestor: Shay Freed - Jackson, WY

Write the program as an object-oriented C++ program that allows the user to input the amount of a mortgage and then select from a menu of mortgage loans:

- 7 year at 5.35%
- 15 year at 5.5%
- 30 year at 5.75%.

Use an array for the different loans. Display the mortgage payment amount. Then, list the loan balance and interest paid for each payment over the term of the loan. On longer term loans, the list will scroll off the screen. Do not allow the list to scroll off the screen, but rather display a partial list and then allow the user to continue the list. Allow the user to loop back and enter a new amount and make a new selection, or quit. Insert comments in the program to document the program.

Change Request #14

Requestor: Shay Freed - Jackson, WY

Write the program as an object-oriented C++ program that allows the user to select which way they want to calculate a mortgage: by input of the amount of the mortgage, the term of the mortgage, and the interest rate of the mortgage payment or by input of the amount of a mortgage and then select from a menu of mortgage loans:

- 7 year at 5.35%
- 15 year at 5.5%
- 30 year at 5.75%.

In either case, display the mortgage payment amount. Then, list the loan balance and interest paid for each payment over the term of the loan. On longer term loans, the list will scroll off the screen. Do not allow the list to scroll off the screen, but rather display a partial list and then allow the user to continue the list. Allow the user to loop back and enter a new amount and make a new selection, or quit. Insert comments in the program to document the program.

Change Request #15

Requestor: Shay Freed - Jackson, WY

Write the program as an object-oriented C++ program that allows the user to select which way they want to calculate a mortgage: by input of the amount of the mortgage, the term of the mortgage, and the interest rate of the mortgage payment or by input of the amount of a mortgage and then select from a menu of mortgage loans: 7 year at 5.35%, 15 year at 5.5%, and 30 year at 5.75% (use an array for the mortgage information and read the interest rates to fill the array from a sequential file). In either case, display the mortgage payment amount. Then, list the loan balance and interest paid for each payment over the term of the loan. On longer term loans, the list will scroll off the screen. Do not allow the list to scroll off the screen, but rather display a partial list and then allow the user to continue the list. Allow the user to loop back and enter a new amount and make a new selection, or quit. Insert comments in the program to document the program.

Change Request #16

Requestor: Dwain Hammer - Billings, MT

Write the program in VB.Net (not Web based) using a loan amount of \$200,000 with an interest rate of 5.75% and a 30 year term. Display the mortgage payment amount. Insert comments to document the program.

Change Request #17

Requestor: Dwain Hammer - Billings, MT

Write the program in VB.Net (not Web based) and have it accept user input of the amount, term and interest rate. Display the mortgage payment amount. Then, list the loan balance and interest paid for each payment over the term of the loan. The list will be longer than the screen, so use loops to display a partial list, hesitate, and then display more of the list. Insert comments to document the program.

Change Request #18

Requestor: Dwain Hammer - Billings, MT

Write the program in VB.Net (not Web based). Use a loan of \$200,000 and have it calculate the payment amount for three mortgage loans:

- 7 years at 5.35%
- 15 years at 5.5%
- 30 years at 5.75%

Use an array for the different loans. Display the mortgage payment amount for each loan. Insert comments to document the program.

Change Request #19

Requestor: Dwain Hammer - Billings, MT

Write the program in VB.Net (not Web based). Use a loan of \$200,000 and have it calculate the payment amount for three mortgage loans:

- 7 years at 5.35%
- 15 years at 5.5%

- 30 years at 5.75%

Use an array for the different loans. Display the mortgage payment amount for each loan. Then, list the loan balance and interest paid for each payment over the term of the loan. Insert comments to document the program.

Change Request #20

Requestor: Dwain Hammer - Billings, MT

Write the program in VB.Net (not Web based) with a graphical user interface. Have the user input the amount of the mortgage, the term of the mortgage and the interest rate. Display the mortgage payment amount based on the user's inputs. Allow the user to loop back and enter new data or quit. Insert comments to document the program.

Change Request #21

Requestor: Dwain Hammer - Billings, MT

Write the program in VB.Net (not Web based) with a graphical user interface. Have the user input the amount of the mortgage and then select from a menu of mortgage loans:

- 7 years at 5.35%
- 15 years at 5.5%
- 30 years at 5.75%

Use an array for the different loans. Display the mortgage payment amount. Then, list the loan balance and interest paid for each payment over the term of the loan. Allow the user to loop back and enter new data or quit. Insert comments to document the program.

Change Request #22

Requestor: Dwain Hammer - Billings, MT

Write the program in VB.Net (not Web based) with a graphical user interface. Allow the user to select which way they want to calculate the mortgage: By input of the amount of the mortgage, the term of the mortgage and the interest rate of the mortgage

or

By input of the amount of the mortgage and then select from a menu of mortgage loans:

- 7 years at 5.35%
- 15 years at 5.5%
- 30 years at 5.75%

In either case, display the mortgage payment amount. Then, list the loan balance and interest paid for each payment over the term of the loan. Allow the user to loop back and enter a new amount and make a new selection, or quit. Load the interest rates for the 7 year, 15 year, and 30 year loans from a file. Insert comments to document the program.

Change Request #23

Requestor: Dwain Hammer - Billings, MT

Write the program in VB.Net with a graphical user interface. Make the program Web based. Allow the user to select which way they want to calculate the mortgage: By input of the amount of the mortgage, the term of the mortgage and the interest rate of the mortgage

or

By input of the amount of the mortgage and then select from a menu of mortgage loans:

- 7 years at 5.35%
- 15 years at 5.5%
- 30 years at 5.75%

In either case, display the mortgage payment amount. Then, list the loan balance and interest paid for each payment over the term of the loan. Add graphics in the form of a chart. Allow the user to loop back and enter a new amount and make a new selection, or quit. Load the interest rates for the 7 year, 15 year, and 30 year loans from a file. Insert comments to document the program.