
Chapter 4 - Part 1 Flow Chart and Loops Examples

Table of Contents

Slide 33	1
Slide 34	1
Slide 35	2

Slide 33

```
m = 0;  
A = 20;  
while A <= 50  
    A = A + 5;  
    m = m + 1;  
end  
A  
m
```

```
A =  
  
    55
```

```
m =  
  
    7
```

Slide 34

```
m = 0;  
A = 100;  
while A > 15  
    A = A/2;  
    m = m +1;  
end  
A  
m
```

```
A =  
  
    12.5000
```

m =

3

Slide 35

```
m = 0;  
A = 10;  
%while A > 0  
    %A = sqrt(A);  
    %m = m + 1;  
%end  
A  
m  
% this will print an infinite loop. A screenshot will be included.
```

A =

10

m =

0

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HOME

PLOTS

APPS

EDITOR

PUBLISH

VIEW

New

Open

Save

Print

Go To

Find

Bookmark

Refactor

Code

Profiler

Analyze

Run Section

Section

Pause

Step

Stop

Section Break

Run and Advance

Run to End

FILE

NAVIGATE

CODE

ANALYZE

SECTION

RUN

Search Documentation

Sign In

C:Users\vmennaDocumentsMATLAB

Current Folder

html

fortest.m

iftest.m

Problem4_4.m

Problem4_6.m

sinewave.m

slidespg33_35.m

whiletest.m

Editor - C:\Users\vmenna\Documents\MATLAB\slidespg33_35.m

slidespg33_35.m

5A = 20;

6while A <= 50

7A = A + 5;

8m = m + 1;

9end

10

11

12

13%% Slide 34

14

15m = 0;

16A = 100;

17while A > 15

18A = A/2;

19m = m +1;

20end

21

22

23

24%% Slide 35

25

26m = 0;

27A = 10;

28while A > 0

29A = sqrt(A);

30m = m + 1;

31end

32

33

34% this will print an infinite loop. A screenshot will be included.

Workspace

Name	Value
A	10
m	0

Problem4_6.m (Script)

Problem 4.6 - For the account describedf in Problem 4.4, write a MATLAB program with a while loop to determine the number of years required for the amount in the account to reach \$5,000.

Problem 4.6 - For the account describedf in Problem 4.4, write a MATL...

A =

12.5000

m =

3

Busy

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UTF-8

CRLF

script

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Go ToFindBookmark

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Refactor

Code

ProfilerAnalyze

ANALYZE

Section BreakRun and AdvanceRun to End

SECTION

RunStepStop

RUN

Search DocumentationSign In

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Current Folder

htmlfortest.miftest.mProblem4_4.mProblem4_6.msinewave.mslidespg33_35.mwhiletest.m

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slidespg33_35.m

```
5 A = 20;
6 while A <= 50
7     A = A + 5;
8     m = m + 1;
9 end
10
11
12
13 %% Slide 34
14
15 m = 0;
16 A = 100;
17 while A > 15
18     A = A/2;
19     m = m +1;
20 end
21
22
23
24 %% Slide 35
25
26 m = 0;
27 A = 10;
28 while A > 0
29     A = sqrt(A);
30     m = m + 1;
31 end
32
33
34 % this will print an infinite loop. A screenshot will be included.
```

Workspace

Name	Value
A	1
m	6.7424e+09

Command Window

New to MATLAB? See resources for [Getting Started](#).

A =

12.5000

m =

3

Operation terminated by user during slidespg33_35

Problem4_6.m (Script)
Problem 4.6 - For the account describedf in Problem 4.4, write a MATLAB program with a while loop to determine the number of years required for the amount in the account to reach \$5,000.
Problem 4.6 - For the account describedf in Problem 4.4, write a MATL...

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