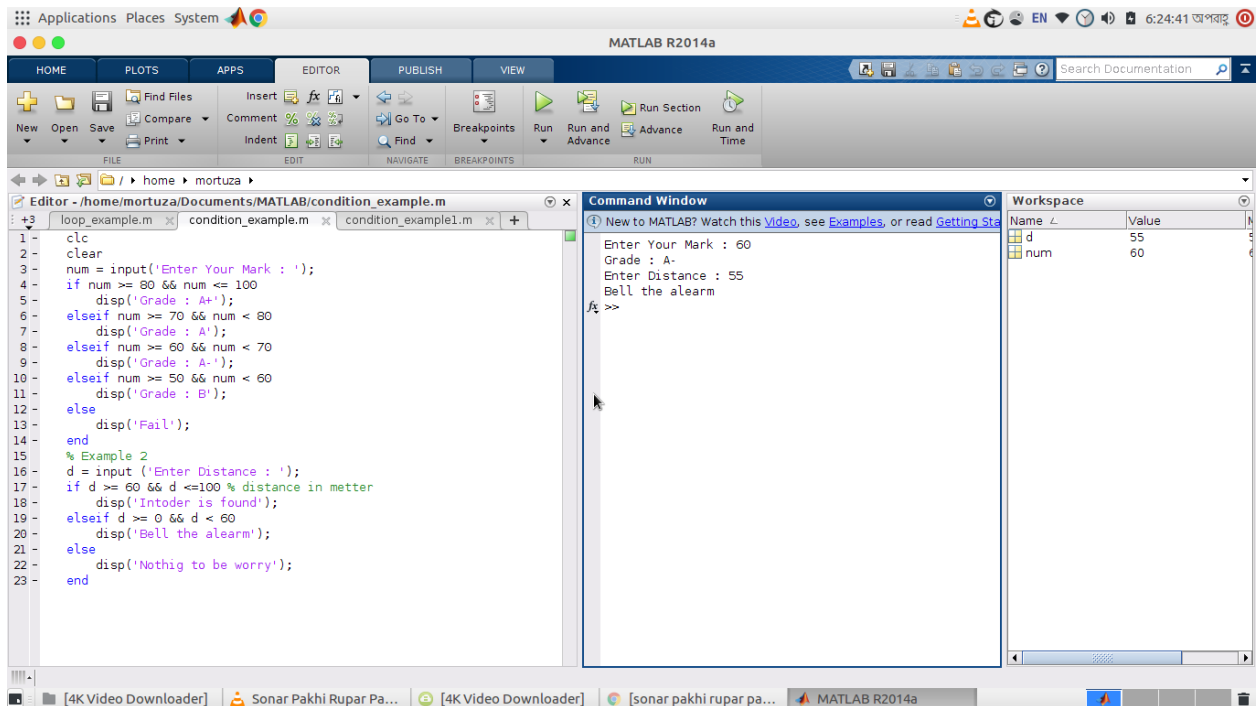


Condition Example:



The screenshot shows the MATLAB R2014a environment. The Editor window displays a script named `condition_example.m` with the following code:

```
1 clc
2 clear
3 num = input('Enter Your Mark : ');
4 if num >= 80 && num <= 100
5     disp('Grade : A+');
6 elseif num >= 70 && num < 80
7     disp('Grade : A');
8 elseif num >= 60 && num < 70
9     disp('Grade : A-');
10 elseif num >= 50 && num < 60
11     disp('Grade : B');
12 else
13     disp('Fail');
14 end
15 % Example 2
16 d = input('Enter Distance : ');
17 if d >= 60 && d <= 100 % distance in meter
18     disp('Intoder is found');
19 elseif d >= 0 && d < 60
20     disp('Bell the alearn');
21 else
22     disp('Nothig to be worry!');
23 end
```

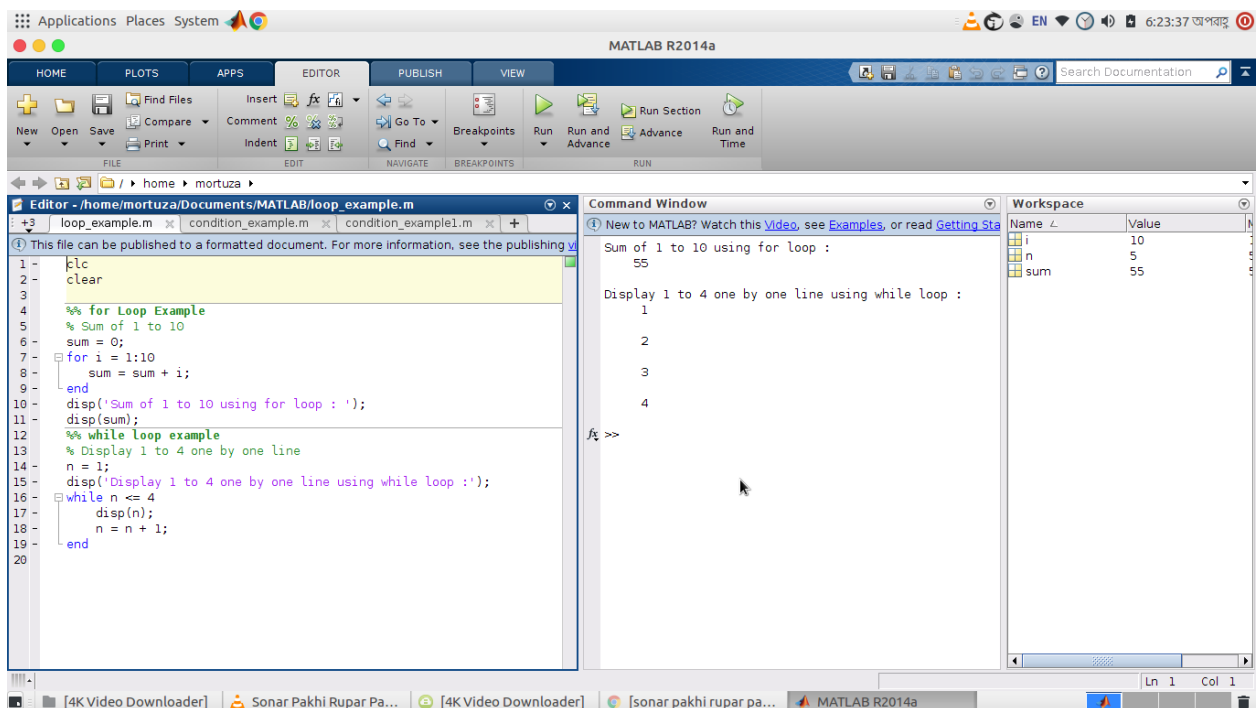
The Command Window shows the execution results:

```
Enter Your Mark : 60
Grade : A
Enter Distance : 55
Bell the alearn
fx >>
```

The Workspace window shows the variables defined during execution:

Name	Value
d	55
num	60

Loop Example:



The screenshot shows the MATLAB R2014a environment. The Editor window displays a script named `loop_example.m` with the following code:

```
1 clc
2 clear
3
4 %% for Loop Example
5 % Sum of 1 to 10
6 sum = 0;
7 for i = 1:10
8     sum = sum + i;
9 end
10 disp('Sum of 1 to 10 using for loop : ');
11 disp(sum);
12 %% while loop example
13 % Display 1 to 4 one by one line
14 n = 1;
15 disp('Display 1 to 4 one by one line using while loop :');
16 while n <= 4
17     disp(n);
18     n = n + 1;
19 end
20
```

The Command Window shows the execution results:

```
Sum of 1 to 10 using for loop :
55

Display 1 to 4 one by one line using while loop :
1
2
3
4
fx >>
```

The Workspace window shows the variables defined during execution:

Name	Value
i	10
n	5
sum	55

Array Example:

The image displays the MATLAB R2014a software interface. The main window is divided into three panes: the Editor, the Command Window, and the Workspace.

Editor Pane: Shows a script file named `array_example.m` with the following code:

```
1- clc
2- clear
3- a = [1 2; 3 4];
4- b = [5 6; 7 8];
5- disp('Array A');
6- disp(a);
7- disp('Array B');
8- disp(b);
9- disp('Transpose Matrix A');
10- disp(a');
11- disp('Inverse Matrix A');
12- disp(inv(a));
13- disp('.* Multiplication');
14- disp(a.*b);
15- disp('.* Multiplication');
16- disp(a.*b);
17-
```

Command Window: Displays the output of the script, showing the arrays and the results of various operations:

```
Array A
1 2
3 4

Array B
5 6
7 8

Transpose Matrix A
1 3
2 4

Inverse Matrix A
-2.0000 1.0000
1.5000 -0.5000

.* Multiplication
5 12
21 32

.* Multiplication
19 22
43 50

fx >>
```

Workspace: Shows the variables defined in the script:

Name	Value
a	[1,2;3,4]
b	[5,6;7,8]

The bottom status bar indicates the current line is 11 and column is 23.