

## LAB-02:

### Exercise-01:

```
%Teat case-01
Input_1=input("Enter a Number :")
```

```
Input_1 = 15
```

```
Output_1=Input_1==round(Input_1)
```

```
Output_1 = logical
          1
```

```
%Teat case-02
Input_2=input("Enter a Number :")
```

```
Input_2 = 15.0004
```

```
Output_2=Input_2==round(Input_2)
```

```
Output_2 = logical
          0
```

```
%Teat case-03
Input_3=input("Enter a Number :")
```

```
Input_3 = 3.1416
```

```
Output_3=Input_3==round(Input_3)
```

```
Output_3 = logical
          0
```

```
%Teat case-04
Input_4=input("Enter a Number :")
```

```
Input_4 = 1×4
          10.0000    2.7000   -0.4400   -5.0000
```

```
Output_4=Input_4==round(Input_4)
```

```
Output_4 = 1×4 logical array
          1     0     0     1
```

### Exercise-02:

```
%Teat case-01
Input_1=input("Enter a Number :")
```

```
Input_1 = 15
```

```
k=num2str(Input_1);  
k(k=='.'|k=='-')=[];  
output_1=k-'0'
```

```
output_1 = 1×2  
1      5
```

%Teat case-02

```
Input_2=input("Enter a Number :")
```

```
Input_2 = 15.0004
```

```
k=num2str(Input_2);  
k(k=='.'|k=='-')=[];  
output_2=k-'0'
```

```
output_2 = 1×6  
1      5      0      0      0      4
```

%Teat case-03

```
Input_3=input("Enter a Number :")
```

```
Input_3 = -2
```

```
k=num2str(Input_3);  
k(k=='.'|k=='-')=[];  
output_3=k-'0'
```

```
output_3 = 2
```

%Teat case-04

```
Input_4=input("Enter a Number :")
```

```
Input_4 = 1234
```

```
k=num2str(Input_4);  
k(k=='.'|k=='-')=[];  
output_4=k-'0'
```

```
output_4 = 1×4  
1      2      3      4
```

%Teat case-05

```
Input_5=input("Enter a Number :")
```

```
Input_5 = -1234
```

```
k=num2str(Input_5);  
k(k=='.'|k=='-')=[];  
output_5=k-'0'
```

```
output_5 = 1×4  
1      2      3      4
```

%Teat case-06

```
Input_6=input("Enter a Number :")
```

```
Input_6 = -12.3400
```

```
k=num2str(Input_6);  
k(k=='.'|k=='-')=[];  
output_6=k-'0'
```

```
output_6 = 1×4  
1 2 3 4
```

### Exercise-03:

```
%Teat case-01
```

```
Input_1=input("Enter a Array :")
```

```
Input_1 = 2×2  
10 20  
30 40
```

```
OuTput_1=Input_1(1:end)
```

```
OuTput_1 = 1×4  
10 30 20 40
```

```
%Teat case-02
```

```
Input_2=input("Enter a Array :")
```

```
Input_2 = 3×3  
8 1 6  
3 5 7  
4 9 2
```

```
OuTput_2=Input_2(1:end)
```

```
OuTput_2 = 1×9  
8 3 4 1 5 9 6 7 2
```

```
%Teat case-03
```

```
Input_3=input("Enter a Array :")
```

```
Input_3 = 3×3 cell
```

	1	2	3
1	8	1	6
2	3	5	7
3	4	9	2

```
OuTput_3=Input_3(1:end)
```

```
OuTput_3 = 1×9 cell
```

	1	2	3	4	5	6	7	8	9
1	8	3	4	1	5	9	6	7	2

%Teat case-04

Input\_4=input("Enter a Array :")

Input\_4 = 1×4 cell

	1	2	3	4
1	4	6	7	1

OutPut\_4=Input\_4(1:end)

OutPut\_4 = 1×4 cell

	1	2	3	4
1	4	6	7	1

#### Exercise-04:

%Teat case-01

Input\_1=input("Enter a Array :")

Input\_1 = 1×4

10 20 -30 -40

OutPut\_1=Input\_1(Input\_1(1:end)>0)

OutPut\_1 = 1×2

10 20

%Teat case-02

Input\_2=input("Enter a Array :")

Input\_2 = 2×3

2 -5 -8  
3 -4 10

OutPut\_2=Input\_2(Input\_2(1:end)>0)

OutPut\_2 = 1×3

2 3 10

%Teat case-03

Input\_3=input("Enter a Array :")

Input\_3 = 7×7

0 0 0 0 0 0 0  
0 0 0 0 0 0 0  
0 0 0 0 0 0 0  
0 0 0 0 0 0 0  
0 0 0 0 0 0 0  
0 0 0 0 0 0 0  
0 0 0 0 0 0 0

OutPut\_3=Input\_3(Input\_3(1:end)>0)

```
OutPut_3 =  
  
1x0 empty double row vector
```

### Exercise-05:

```
%Teat case-01  
Input_1=input('Enter phrase: ','s')
```

```
Input_1 =  
'laughing out loud'
```

```
sp=find(Input_1==' ');  
idx=[1,sp+1];  
OutpUt_1=lower(Input_1(idx))
```

```
OutpUt_1 =  
'lol'
```

```
%Teat case-02  
Input_2=input('Enter phrase: ','s')
```

```
Input_2 =  
'World Wide Web'
```

```
sp=find(Input_2==' ');  
idx=[1,sp+1];  
OutpUt_2=lower(Input_2(idx))
```

```
OutpUt_2 =  
'www'
```

```
%Teat case-03  
Input_3=input('Enter phrase: ','s')
```

```
Input_3 =  
'As Soon As Possible'
```

```
sp=find(Input_3==' ');  
idx=[1,sp+1];  
OutpUt_3=lower(Input_3(idx))
```

```
OutpUt_3 =  
'asap'
```

### Exercise-06:

```
%Teat case-01  
Input_1=input('Enter phrase: ','s')
```

```
Input_1 =  
'Hello, dear, old friend.'
```

```
Output_1=replace(Input_1,',','')
```

```
Output_1 =  
'Hello dear old friend.'
```

```
%Teat case-02
```

```
Input_2=input('Enter phrase: ','s')
```

```
Input_2 =  
'rose, lily, iris, orchid'
```

```
Output_2=replace(Input_2,',','')
```

```
Output_2 =  
'rose lily iris orchid'
```

```
%Teat case-03
```

```
Input_3=input('Enter phrase: ','s')
```

```
Input_3 =  
'Logan you still have time'
```

```
Output_3=replace(Input_3,',','')
```

```
Output_3 =  
'Logan you still have time'
```