

## LAB-02:

### Exercise-01:

```
t=input('How many test cases? : ');
for i=1:t
    Input=input("Enter a Number :")
    Output=Input==round(Input)
end
```

```
Input = 15
Output = logical
     1
Input = 15.0004
Output = logical
     0
Input = 3.1416
Output = logical
     0
Input = 1x4
    10.0000    2.7000   -0.4400   -5.0000
Output = 1x4 logical array
     1     0     0     1
```

### Exercise-02:

```
t1=input('How many test cases? : ');
for i=1:t1
    Input=input("Enter a Number :")
    k=num2str(Input);
    k(k=='.'|k=='-')==[];
    output=k-'0'
end
```

```
Input = 15
output = 1x2
     1     5
Input = 15.0004
output = 1x6
     1     5     0     0     0     4
Input = -2
output = 2
Input = 1234
output = 1x4
     1     2     3     4
Input = -1234
output = 1x4
     1     2     3     4
Input = -12.3400
output = 1x4
     1     2     3     4
```

### Exercise-03:

```
t2=input('How many test cases? : ');
for i=1:t2
    Input_1=input("Enter a Array :")
    OuTput_1=Input_1(1:end)
end
```

Input\_1 = 2×2

10 20  
30 40

OuTput\_1 = 1×4

10 30 20 40

Input\_1 = 3×3

8 1 6  
3 5 7  
4 9 2

OuTput\_1 = 1×9

8 3 4 1 5 9 6 7 2

Input\_1 = 3×3 cell

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

OuTput\_1 = 1×9 cell

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

Input\_1 = 1×4 cell

	1	2	3	4
1	4	6	7	1

OuTput\_1 = 1×4 cell

	1	2	3	4
1	4	6	7	1

### Exercise-04:

```
t3=input('How many test cases? : ');
for i=1:t3
    Input_1=input("Enter a Array :")
    OutPut_1=Input_1(Input_1(1:end)>0)
end
```

Input\_1 = 1×4

10 20 -30 -40

```

OutPut_1 = 1×2
    10    20
Input_1 = 2×3
     2    -5    -8
     3    -4    10
OutPut_1 = 1×3
     2     3    10
Input_1 = 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_1 =

    1×0 empty double row vector

```

### Exercise-05:

```

t4=input('How many test cases? : ');
for i=1:t4
    Input_1=input('Enter phrase: ','s')
    sp=find(Input_1==' ');
    idx=[1,sp+1];
    OutpUt_1=lower(Input_1(idx))
end

```

```

Input_1 =
'laughing out loud'
OutpUt_1 =
'lol'
Input_1 =
'World Wide Web'
OutpUt_1 =
'www'
Input_1 =
'As Soon As Possible'
OutpUt_1 =
'asap'

```

### Exercise-06:

```

t5=input('How many test cases? : ');
for i=1:t5
    Input_1=input('Enter phrase: ','s')
    OutpuT_1=replace(Input_1,',','')
end

```

```

Input_1 =

```

```
'Hello, dear, old friend.'  
Output_1 =  
'Hello dear old friend.'  
Input_1 =  
'rose, lily, iris, orchid'  
Output_1 =  
'rose lily iris orchid'  
Input_1 =  
'Logan you still have time'  
Output_1 =  
'Logan you still have time'
```