

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 = 1×4
10.0000    2.7000   -0.4400   -5.0000
Output = 1×4 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 = 1×2
1      5
Input = 15.0004
output = 1×6
1      5      0      0      0      4
Input = -2
output = 2
Input = 1234
output = 1×4
1      2      3      4
Input = -1234
output = 1×4
1      2      3      4
Input = -12.3400
output = 1×4
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 = 1x2
    10    20
Input_1 = 2x3
    2    -5    -8
    3    -4    10
OutPut_1 = 1x3
    2    3    10
Input_1 = 7x7
    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 =

```

1x0 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'
```