

main.py

```
1 #Keshav_Mathur_21107049_ASSIGNMENT-5(PY)
2 #Q1
3
4 #Asking user for wrod/statement.
5 a=input("Enter a word or statement: ")
6
7 #reversing the statement/word using below code.
8 print(f"The reverse of '{a}' is:", a[::-1])
```

input

Enter a word or statement: My name is Keshav.  
The reverse of 'My name is Keshav.' is: .vahseK si eman yM

...Program finished with exit code 0  
Press ENTER to exit console.

main.py

```

1  #Keshav_Mathur_21107049_ASSIGNMENT-5(PY)
2  #Q2
3  #Asking user for the range and the number to be divided with.
4  a=int(input("Enter the starting number of the range (including it): "))
5  b=int(input("Enter the ending number of the range (including it): "))
6  c=int(input("Number to be divided with the range of number: "))
7  #Using 'for' loop to finding the required output.
8  for i in range(a,b):
9      a=a+1
10     if a%c==0:
11         print(a)
12     elif a==b:
13         print("END")
    
```

input

```

Enter the starting number of the range (including it): 1
Enter the ending number of the range (including it): 100
Number to be divided with the range of number: 5
    
```

5  
 10  
 15  
 20  
 25  
 30  
 35  
 40  
 45  
 50  
 55  
 60  
 65  
 70  
 75  
 80  
 85  
 90  
 95  
 100

```
main.py
1  #Keshav_Mathur_21107049_ASSIGNMENT-5(PY)
2  #Q3
3
4  #Asking user for the values of sides of triangle.
5  a=float(input("1st side of triangle(cm): "))
6  b=float(input("2nd side of triangle(cm): "))
7  c=float(input("3rd side of triangle(cm): "))
8
9  #Evaluating semiperimeter.
10 s=float((a+b+c)/2)
11
12 #Giving 'd' a certain value to easy our calculation.
13 d=float(s*(s-a)*(s-b)*(s-c))
14
15 #Using 'if_else' for finding the area of triangle using heron's formula.
16 if a+b>c and a+c>b and b+c>a:
17     print(f"The area of triangle with side {a} cm , {b} cm , {c} cm is:" ,(d)**(1/2), "cm^2")
18 else:
19     print("Triangle doesn't exists.")
```

input

1st side of triangle(cm): 3  
2nd side of triangle(cm): 4  
3rd side of triangle(cm): 5  
The area of triangle with side 3.0 cm , 4.0 cm , 5.0 cm is: 6.0 cm^2  
  
...Program finished with exit code 0  
Press ENTER to exit console.

main.py

```
1 #Keshav_Mathur_21107049_ASSIGNMENT-5(PY)
2 #Q4
3
4 #Assuming n=5, means the maximum number of stars to be come as in output.
5 n=5
6
7 #Using loop for getting the desired output.
8 for i in range(n):
9     print(i**" ")
10 for z in range(n,0,-1):
11     print(z**" ")
```

input

```
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
```

```
...Program finished with exit code 0
Press ENTER to exit console.
```

main.py

```
1 #Keshav_Mathur_21107049_ASSIGNMENT-5(PY)
2 #Q5
3 a = 65
4
5 # outer loop for ith rows
6 for i in range(0,5):
7     # inner loop for jth columns
8     for j in range(0,i+1):
9         char = chr(a)
10        print(char,end="")
11        a += 1
12    print()
```

input

A  
BC  
DEF  
GHIJ  
KLMNO

...Program finished with exit code 0  
Press ENTER to exit console.

main.py

```

1  #Keshav_Mathur_21107049_ASSIGNMENT-5(PY)
2  #Q6
3
4  #Asking user for range.
5  a=int(input("Enter starting number of range: "))
6  b=int(input("Enter ending number of range: "))
7
8  print(f"The Prime Numbers in the range ({a},{b}) are: ")
9
10 #Using 'for' loop to find the prime numbers.
11 for number in range(a,b+1):
12     if number>1:
13         for i in range(2,number):
14             if(number%i)==0:
15                 break
16         else:
17             print(number)

```

input

```

Enter starting number of range: 1
Enter ending number of range: 50
The Prime Numbers in the range (1,50) are:

```

2  
 3  
 5  
 7  
 11  
 13  
 17  
 19  
 23  
 29  
 31  
 37  
 41  
 43  
 47

main.py

```
1 #Keshav_Mathur_21107049_ASSIGNMENT-5(PY)
2 #Q7
3
4 #Using 'for' loop to get required output.
5 for x in range(0, 501):
6     if (x%7==0) and (x%11==0):
7         print(x)
```

input

```
0
77
154
231
308
385
462

...Program finished with exit code 0
Press ENTER to exit console.
```

main.py

```

1 #Q8
2 #Q8
3 Enter=input("Press 'enter' to enter 10 integers.")
4 num_1=int(input("1st number: "))
5 num_2=int(input("2nd number: "))
6 num_3=int(input("3rd number: "))
7 num_4=int(input("4th number: "))
8 num_5=int(input("5th number: "))
9 num_6=int(input("6th number: "))
10 num_7=int(input("7th number: "))
11 num_8=int(input("8th number: "))
12 num_9=int(input("9th number: "))
13 num_10=int(input("10th number: "))
14 a=[num_1, num_2, num_3, num_4, num_5, num_6, num_7, num_8, num_9, num_10]
15 print("A", end="")
16 for i in a:
17     if i < 0:
18         print(f" {i}")
19 print("B", end="")
20 for j in a:
21     if j>0:
22         print(f" {j}")
23 print("C", end="")
24 for k in a:
25     if k%2==1:
26         print(f" {k}")
27 print("D", end="")
28 for m in a:
29     if m%2==0:
30         print(f" {m}")
31 print("E", end="")
32 freq={}
33 for l in a:
34     if l in freq:
35         freq[l]+=1
36     else:
37         freq[l]=1
38 print(" Occurence of a number in the list: ", freq)
    
```



RunDebugStopShareSaveBeautify

Language Python 3

input

```
Press 'enter' to enter 10 integers.
1st number: 1
2nd number: 2
3rd number: 45
4th number: 34
5th number: -57
6th number: -68
7th number: -21
8th number: -90
9th number: 28
10th number: 8
A) -57
-68
-21
-90
B) 1
2
45
34
28
8
C) 1
45
-57
-21
D) 2
34
-68
-90
28
8
E) Occurence of a number in the list: {1: 1, 2: 1, 45: 1, 34: 1, -57: 1, -68: 1, -21: 1, -90: 1, 28: 1, 8: 1}

...Program finished with exit code 0
Press ENTER to exit console.
```

main.py

```
1 #Keshav_Mathur_21107049_ASSIGNMENT-5(PY)
2 #Q9
3
4 #Importing 'counter' from collections section of python library.
5 from collections import Counter
6
7 #Asking user for the sentence.
8 a=input("Enter a sentence: ")
9 print(Counter(a.split(" ")))
```

input

Enter a sentence: my name is keshav and my sid is 21107049  
Counter({'my': 2, 'is': 2, 'name': 1, 'keshav': 1, 'and': 1, 'sid': 1, '21107049': 1})

...Program finished with exit code 0  
Press ENTER to exit console.