

```
#1

a=input("please enter the statement")
print("the original statement is-",a)
x=a[::-1]
print ("the reverse statement is-",x)
```

```
please enter the sttatementpython is interesting
theoriginal statement is- python is interesting
the reverse statement is- gnitseretni si nohtyp
Enter the lower range limit :
```

```
#2

lower= input(" Enter the lower range limit :")
lower=int(lower)
upper=input("Enter the upper range limit:")
upper=int(upper)
n=int(input("Enter the number to be divided by : "))
for i in range (lower, upper+1):
    if i%n== 0:
        print(i)
```

```
Enter the lower range limit :1
Enter the upper rangelimit:45
Enter the number to be divided by : 5
5
10
15
20
25
30
35
40
45
```

```
#3

a=eval(input("Enter the first side length:"))
b=eval(input("Enter the second side length:"))
c= eval(input("Enter the third side lenth :"))
s=(a+b+c)/2
area=(s*(s-a)*(s-b)*(s-c))**0.5
if (a+b)>c:
    if (b+c)>a:
        if (c+a)>b:
            print("the area of triangle is-", area)
else:
```

```
print("no area")
```

```
Enter the first side length:3
Enter the second side length:4
Enter the third side length :5
the area of triangle is- 6.0
```

```
#4
n=5
for i in range(n):
    for j in range(i):
        print('*', end=" ")
    print('\n')
for i in range(n,0,-1):
    for j in range(i):
        print('*',end=" ")
    print('\n')
```

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

```
#5
n= int(input("enter the no. of rows: "))
m= (2*n)-2
for i in range (0, n):
    for j in range (0, m):
        print(end=" ")
    m=m-1 #decreasing m after each loop
    for j in range(0,i+1):
        #printing full triangle pyramid using stars
        print("a",end=' ')
    print(" ")
```

```

enter the no. of rows: 10
      a
    a a
  a a a
a a a a
  a a a a a
    a a a a a a
      a a a a a a a
        a a a a a a a a
          a a a a a a a a a
            a a a a a a a a a a

```

```

#6
lower_value = int(input("please,Enter the lowest Range value:"))
upper_value =int(input("please, Enter the upper Range value:"))
print("The Prime Numbers in the range are:")
for number in range(lower_value, upper_value+1):
    if number > 1:
        for i in range (2, number):
            if (number % i) ==0:
                break
        else:
            print (number)

```

```

please,Enter the lowest Range value:2
please, Enter the upper Range value:25
The Prime Numbers in the range are:
2
3
5
7
11
13
17
19
23

```

#7

```

#7
nl=[]
for x in range(0,500):
    if (x%7==0) and (x%11==0):
        nl.append(str(x))
print(',' .join(nl))

```

```

0,77,154,231,308,385,462
Enter the numbers:

```

#8

```
lst =[]
for i in range (0,10):
    ele=int(input("Enter the numbers:"))
    lst.append(ele)
pn=[]
nn=[]
on=[]
en=[]
for i in range(0,10):
    if(i>=0):
        pn.append(i)
    if(i<0):
        nn.append(i)
    if(i%2==0):
        on.append(i)
    if(i%2!=0):
        en.append(i)
print(pn)
print(nn)
print(on)
print(en)
def word_count(lst):
    counts= dict()
    for word in lst:
        if word in counts:
            counts[word]+=1
        else:
            counts[word]=1
    return counts
print( word_count(lst))
```

```
Enter the numbers:1
Enter the numbers:2
Enter the numbers:0
Enter the numbers:0
Enter the numbers:9
Enter the numbers:7
Enter the numbers:8
Enter the numbers:6
Enter the numbers:4
Enter the numbers:1
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
[]
[0, 2, 4, 6, 8]
[1, 3, 5, 7, 9]
{1: 1}
```

```
#9
string="This is a sample python program ,welcome to world of python
programming!"
word=input("enter word-")
list=[]
wordcount=0
list=string.split(" ")
for i in range (0,len(list)):
    if(word==list[i]):
        wordcount=wordcount+1
print("Number of occurrences found in the string :")
print(wordcount)
```

```
enter word-python
Number of occurrences found in the string :
2
```