

# Module-3 Python Assignment-1

1:Convert binary number to decimal number

In [1]:

```
n=int(input("Enter binary number:"))
base=1
sum=0
while n!=0:
    sum=sum+((n%10)*base)
    n//=10
    base*=2
print("Decimal number:",sum)
```

Enter binary number:1000  
Decimal number: 8

2:Generate first n number of Fibonacci numbers.take n value from user

In [2]:

```
n=int(input("Enter value of n:"))
n1=0
n2=1
print("Fibonacci series is:")
if n==1:
    print(n1)
elif n==2:
    print(n1,n2)
else:
    print(n1,n2,end=" ")
    i=1
    while i<=n-2:
        n3=n1+n2
        print(n3,end=" ")
        n1=n2
        n2=n3
        i+=1
```

Enter value of n:5  
Fibonacci series is:  
0 1 1 2 3

3:Display multiplication table of k.Take k value from user

In [1]:

```
k=int(input("Enter k value:"))
i=1
while i<=10:
    print(k,"*",i,"=",k*i)
    i+=1
```

Enter k value:6  
6 \* 1 = 6  
6 \* 2 = 12  
6 \* 3 = 18  
6 \* 4 = 24  
6 \* 5 = 30  
6 \* 6 = 36  
6 \* 7 = 42  
6 \* 8 = 48  
6 \* 9 = 54  
6 \* 10 = 60

4:Take 10 integers from keyboard using loop and print their avrage value on the screen.print the following pattern using loop

In [1]:

```
a=[]
i=0
sum=0
while i<10:
    ele=int(input("Enter the value:"))
    sum=sum+ele
    a.append(ele)
    i+=1
print("Sum of elements of array:",sum)
print("Average of elements of array:",sum/10)
for k in range(1,5):
    j=k
    while j!=0:
        print("*",end=" ")
        j-=1
    print("\n")
```

```
Enter the value:10
Enter the value:20
Enter the value:30
Enter the value:40
Enter the value:50
Enter the value:60
Enter the value:70
Enter the value:80
Enter the value:90
Enter the value:100
Sum of elements of array: 550
Average of elements of array: 55.0
*

* *

* * *

* * * *
```

5:Write a program to find GCD or HCF from the given two numbers

In [2]:

```
a=int(input("Enter first number:"))
b=int(input("Enter second number:"))
i=1
while(i<=a and i<=b):
    if a%i==0 and b%i==0:
        gcd=i
    i+=1
print("GCD:",gcd)
```

```
Enter first number:5
Enter second number:15
GCD: 5
```

6:Write a python program to accept a word from user and reverse it

In [3]:

```
word=input("Enter a word:")
rev=""
for i in word:
    rev=i+rev
print("Reversed word:",rev)
```

```
Enter a word:Saketh
```

Reversed word: htekaS

7:Write a python program to count the number of even and odd numbers from a series of numbers

In [1]:

```
n=int(input("Enter n value:"))
i=0
e=0
o=0
while i<n:
    ele=int(input("Enter number:"))
    if ele%2==0:
        e+=1
    else:
        o+=1
    i+=1
print("Number of even numbers:",e)
print("Number of odd numbers:",o)
```

```
Enter n value:6
Enter number:1
Enter number:2
Enter number:3
Enter number:4
Enter number:5
Enter number:6
Number of even numbers: 3
Number of odd numbers: 3
```

8:Write a python program that prints all the numbers from 0 to 6 except 3 and 6

In [6]:

```
for i in range(0,7):
    if i==3:
        print("",end="")
    elif i==6:
        print("",end="")
    else:
        print(i,end=" ")
```

```
0 1 2 4 5
```

In [ ]: