**PYTHON ASSIGNMENT DAY 6**

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1.Convert Binary to decimal

Ans: def binaryToDecimal(binary)

binary1=binary

decimal,i,n=0,0,0

while(binary!=0):

decimal=decimal+dec\*pow(2,i)

binary=binary//10

i+=1

print(decimal)

2.Generate first N number of Fibonacci numbers.Take N value from user.

Ans: n=int(input(“enter the value of n”))

f1=0

f2=1

if (n<1):

return

for x in range(0,n):

print(f2,end=” “)

next=f1=f2

f1=f2

f2=next

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

Ans: k=int(input(“enter the number”))

for i in range(1,11)

print(k,’\*’,i,’=’,k\*i)

4.Take 10 integers from keyboard using loop and print their average value on the screen.

Ans: i=0

s=0

while i<n:

n=int(input())

s=s+n

i+=1

avg=s/10

print(“the average is”,avg)

5.Print the following patterns using loop

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\* \* \*

\* \* \* \*

Ans: rows=4

for j in range(0,rows+1):

print("\* "\*j)

6.Write a program in python to find greatest common divisor or highest common factor of a given number.

Ans: def hcf(x,y):

if x>y:

smaller=y

else:

smaller=x

for i in range(1,smaller+1):

if x%i==0 and y%i==0:

hcf=i

return hcf

num1=int(input(“enter 1st number”)

num2=int(input(“enter 2nd number”)

print(“the hcf of”,num1,”and”,num2,”is”,hcf(num1,num2))

7.Write a python program that accepts a word from the user and reverse it.

Ans: def reverse(str):

str=str[::-1]

return str

str="gitam"

print("the original string is:",end=" ")

print (str)

print("the reversed string is:",end=" ")

print(reverse(str))

8.Write a python program to count the number of even and odd numbers from the series of numbers.

Ans: list=[10,21,4,67,5,78,45,28]

even\_count=0

odd\_count=0

for num in list:

if num%2==0:

even\_count+=1

else:

odd\_count+=1

print(even\_count)

print(odd\_count)

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

Ans: for x in range (6):

if x==3 or x==6:

continue

print(x,end=” “)

print(“\n”)