***Python assignment***

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**1. Program to convert binary number into decimal number**

b\_num = list(input("Input a binary number: "))

value = 0

i in range(len(b\_num)):

digit = b\_num.pop()

if digit == '1':

value = value + pow(2, i)

print("The decimal value of the number is", value)

**2. Program to generate first n number of fibonacci numbers**

n = int(input("Enter the value of 'n': "))

a = 0

b = 1

sum = 0

count = 1

print("Fibonacci Series: ", end = " ")

while(count <= n):

print(sum, end = " ")

count += 1

a = b

b = sum

sum = a + b

**3. Program to display the multiplication table of a value(k)**

num = int(input("Display multiplication table of "))

for i in range(1, 11):

print(num, 'x', i, '=', num\*i)

**4. Program to take 10 integers from keyboard using loop and print their average value on the screen**

num = int(input('How many numbers: '))

total\_sum = 0

for n in range(num):

numbers = float(input('Enter number : '))

total\_sum += numbers

avg = total\_sum/num

print('Average of ', num, ' numbers is :', avg)

**5. Program to print the pattern**

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k = 1

for i in range(0, 4):

for j in range(0, k):

print("\* ", end="")

k = k + 1

print()

**6. Program to find H.C.F or G.C.D of two numbers**

def compute\_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 = 54

num2 = 24

print("The H.C.F. or G.C.D is", compute\_hcf(num1, num2))

**7. Program that accepts a word from user and reverse it**

word = input("Input a word to reverse: ")

for char in range(len(word) - 1, -1, -1):

print(“reverse word is “,word[char], end="")

print("\n")

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

list1 = [10, 21, 4, 45, 66, 93, 11]

even\_count, odd\_count = 0, 0

num = 0

while(num < len(list1)

if list1[num] % 2 == 0:

even\_count += 1

else:

odd\_count += 1

num += 1

print("Even numbers in the list: ", even\_count)

print("Odd numbers in the list: ", odd\_count)

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

x=int(input(“enter the number”))

For x in range (6):

If(x==3 or x==6):

Continue

Print(x,end=’ ‘)

Print(“\n”)