**ASSIGNMENT 2**

**1] Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700 (both included).**

for i in range(1500,2701):

if(i%7==0 and i%5==0):

print(i)

**2] Write a Python program to convert temperatures to and from Celsius, Fahrenheit.**

temp = input("Enter temperature : ")

if(temp.endswith('F')):

f = float(temp[:len(temp)-1])

c = (5/9) \* (f-32)

print(c)

elif (temp.endswith('C')):

c = float(temp[:len(temp)-1])

f = ((9/5) \* c) + 32

print(f)

else:

print("Invalid Input")

**3] Write a Python program to get the Fibonacci series between 0 to 50.**

a,b = 0,1

print(a)

while (b < 50):

a,b = b,a+b

print(a)

**4] Write a Python program which iterates the integers from 1 to 50. For multiples of three print "Fizz" instead of the number and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz".**

for i in range(1,51):

if(i%3==0):

if(i%5==0):

print("FizzBuzz")

else:

print("Fizz")

if(i%5==0 and i%3!=0):

print("Buzz")

**5] Write a Python program that accepts a string and calculate the number of digits and letters.**

mystr = input("Input a string : ")

acount,dcount = 0,0

for i in mystr:

if(i.isdigit()):

dcount = dcount + 1

elif(i.isalpha()):

acount = acount + 1

print("Digits = ",dcount , "Alphabets : ",acount)

**6] Write a Python program to print alphabet pattern 'Z'.**

n = int(input("Enter a number : "))

print("\*"\*n)

for i in range(2,n):

print(" "\*(n-i),"\*",sep="")

print("\*"\*n)

**7] Write a Python program to print alphabet pattern 'S'**

n = int(input("Enter a number : "))

print(" ","\*"\*n,sep="")

for i in range(1,n-1):

print("\*")

print(" ","\*"\*(n-1),sep="")

for i in range(1,n-1):

print(" "\*(n),"\*",sep="")

print("\*"\*n)

**8] Write a Python program to construct the following pattern, using a nested loop number. Expected Output:**

**1**

**22**

**333**

**4444**

**55555**

**666666**

**7777777**

**88888888**

**999999999**

for item in [str(i)\*i for i in range(1,10)]: print(item,sep="\n")

**9] Write a Python program that accepts a word from the user and reverse it. (Without word[::-1])**

mystr = input("Enter a string : ")

mystr = "".join(reversed(mystr))

print(mystr)

**10] Write a Python program to calculate the sum and average of n integer numbers.**

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

sum = 0;

for i in range(n):

num = int(input())

sum = sum + num

print("Sum = ",sum,"Average = ",sum/n)