→ PYTHON LAB ASSIGNMENTS

NAME: SHUBHAM TAKANKHAR

ROLL NO: 54

MCA SY

Write a program that asks the user to enter a length in centimeters. If the user enters a negative length, the program should tell the user that the entry is invalid. Otherwise, the program should convert the length to inches and print out the result. There are 2.54 centimeters in an inch. (Use 'if-else' statement.)

Write a program that asks the user for two numbers and prints 'Numbers are Close' if the numbers are within 0.001 of each other and 'Numbers are not close' otherwise.

```
num1=float(input("num1:"))
num2=float(input("num2:"))
diff=num1-num2
if diff<0.001:
   print("Close")
else:
   print("Not Close")

L> num1:2
   num2:2.001
   Close
```

Given three integers, determine how many of them are equal to each other. The program must print one of these numbers: 3 (if all are the same), 2 (if two of them are equal to each other and the third is different) or 0 (if all numbers are different)

```
num1=int(input("num1:"))
num2=int(input("num2:"))
num3=int(input("num3:"))

if num1==num2==num3:
    print("3")
elif num1==num2 or num3 == num2 or num3==num1:
    print("2")
else:
    print("1")
print(" INTEGERS ARE EQUAL")
```

```
□ num1:1
     num2:2
     num3:1
      INTEGERS ARE EQUAL
Write a program to print factorial of a number using while loop
#FACTORIAL
num = int(input())
i=1
fact=1
while i<=num:
 fact*=i
  i+=1
print(fact)
 ₽
     6
     720
WAP to find the sum of the digit of a given number. (while loop)
#SUM_OF_DIFITS
num = input()
i=0
sums=0
while i < len(num):
  sums += int(num[i])
  i+=1
print(sums)
 C→
    124
WAP for a table of 5 using for loop
for i in range(1,11):
  print("5 x {} = {} ".format(i,5*i))
 5 \times 2 = 10
     5 \times 3 = 15
     5 \times 4 = 20
     5 \times 5 = 25
     5 \times 6 = 30
     5 \times 7 = 35
     5 \times 8 = 40
     5 \times 9 = 45
```

WAP to print even number between 20 to 40 using for loop

```
for i in range(20,41,2):
    print(i)
```

 $5 \times 10 = 50$

WAP to print pyramid like pattern using for loop

WAP to print capital letters from A to Z using for loop

```
for i in range(65,91):
 ch=chr(i)
 print(ch)
₽
    Α
     В
    C
    D
     Ε
     G
     Ι
     J
     Κ
     L
    Μ
    N
     0
    Ρ
     Q
     R
     S
    Χ
    Υ
```

WAP using break statement to print first three letters in "string"

```
for i in "string":
   if i=='i':
     break
     print(i)
```

bi.tir(T)

D→ s t r