PROject

Name : Muhammad Ashar Roll no.:142 Class:BSE-Fall-2024 Sec:C

# OBJECTIVE

To make a compiled program of 5 different programs within it. 1.To find area of circle,2.Do find if number is odd or even,3.To find if the alphabet is either vowel or consonenet,4.To make a calculator,5.To make a marksheet.

**EXERCISE**

**Source Code**

def program1 ():

#Muhammad Ashar(Area of circle)

import math

radius=eval(input("Enter the radius of circle:"))

print("To calculate the area of circle using its radius we will use the formula : A=πr²")

print("As we know the radius is:",radius,"and the value of π is constant",math.pi)

print("Now lets put the value in above formula A=",(math.pi),"x",(radius),"²")

area=math.pi\*radius\*\*2

print("The area of circle with radius",radius,"will be:",area)

def program2 ():

#Muhammad Ashar (Odd/Even)

print("Lets find if the number you gave is a even or odd number")

num1=int(input("Enter the number:"))

if num1%2==0 :

print("The number is even")

else:

print("The number is odd")

def program3 ():

#Muhammad Ashar (Vowel/Consonenet)

p=print

i=input

s=str

p("Give me a alphabet and I will guess if the number is vowel or consonenet")

alph=s(i("Enter the alphabet:"))

if alph=='a' or alph=='e' or alph=='i' or alph=='o' or alph=='u':

print("The alphabet you gave me is a Vowel")

else:

print("The alphabet you gave me is a Consonenet")

def program4():

#Muhammad Ashar (Calculator)

print("\t!!!Welcome to the Calculator!!!")

a=int(input("Enter the first number:"))

b=int(input("Enter the second number:"))

operation=(input("Choose your operation('+''-''/''\*'):"))

if operation =='+':

print(a+b)

elif operation == '-':

print(a-b)

elif operation =='/':

print(a/b)

elif operation == "\*":

print(a\*b)

else:

print("Invalid Input")

def program5():

print("\t Marksheet of XYZ student")

total=0

nos= int(input("Enter the number of subjects:"))

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

print("Enter the marks of subject", i, ":", end="")

marks1=eval(input())

total += marks1

print("Total =", total)

per = total / (nos \* 100) \* 100

print(f"Percentage: {per:.3f}%")

def main():

print("\nChoose a program:")

print("1. Program 1")

print("2. Program 2")

print("3. Program 3")

print("4. Program 4")

print("5. Program 5")

choice = int(input("\nEnter your choice: "))

if choice == 1:

program1()

elif choice == 2:

program2()

elif choice == 3:

program3()

elif choice == 4:

program4()

elif choice == 5:

program5()

else:

print("Invalid choice. Please try again.")

if \_\_name\_\_ == "\_\_main\_\_":

main()