**DEPARTMENT:- CSE**

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**SEMESTER:- 2nd**

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**TASK ONE: SIMPLE CALCULATOR**

**1. Create a Python program that acts as a basic calculator. It should prompt the user to**

**enter two numbers and choose an operation (addition, subtraction, multiplication,**

**division). Then, it should perform the selected operation and display the result to the**

**user.**

**Ans:-**

**# This function adds two numbers**

**def add(x, y):**

**return x + y**

**# This function subtracts two numbers**

**def subtract(x, y):**

**return x - y**

**# This function multiplies two numbers**

**def multiply(x, y):**

**return x \* y**

**# This function divides two numbers**

**def divide(x, y):**

**return x / y**

**print("Select operation.")**

**print("1.Add")**

**print("2.Subtract")**

**print("3.Multiply")**

**print("4.Divide")**

**while True:**

**# take input from the user**

**choice = input("Enter choice(1/2/3/4): ")**

**# check if choice is one of the four options**

**if choice in ('1', '2', '3', '4'):**

**try:**

**num1 = float(input("Enter first number: "))**

**num2 = float(input("Enter second number: "))**

**except ValueError:**

**print("Invalid input. Please enter a number.")**

**continue**

**if choice == '1':**

**print(num1, "+", num2, "=", add(num1, num2))**

**elif choice == '2':**

**print(num1, "-", num2, "=", subtract(num1, num2))**

**elif choice == '3':**

**print(num1, "\*", num2, "=", multiply(num1, num2))**

**elif choice == '4':**

**print(num1, "/", num2, "=", divide(num1, num2))**

**# check if user wants another calculation**

**# break the while loop if answer is no**

**next\_calculation = input("Let's do next calculation? (yes/no): ")**

**if next\_calculation == "no":**

**break**

**else:**

**print("Invalid Input")**

**Output:-**

**Select operation.**

**1.Add**

**2.Subtract**

**3.Multiply**

**4.Divide**

**Enter choice(1/2/3/4): 4**

**Enter first number: 4**

**Enter second number: 2**

**4.0 / 2.0 = 2.0**