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In [1]: # Program make a simple calculator
        def add(x, y):
            return x + y
        def subtract(x, y):
            return x - y
        def multiply(x, y):
            return x * y
        def divide(x, y):
            return x / y
        print("Select operation.")
        print("1.Add")
        print("2.Subtract")
        print("3.Multiply")
        print("4.Divide")
        while True:
            choice = input("Enter choice(1/2/3/4): ")
            if choice in ('1', '2', '3', '4'):
                 num1 = float(input("Enter first number: "))
                num2 = float(input("Enter second number: "))
                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))
                break
            else:
                 print("Invalid Input")
```

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Select operation.
1.Add
2.Subtract
3.Multiply
4.Divide
Enter choice(1/2/3/4): 1
Enter first number: 2
Enter second number: 3
2.0 + 3.0 = 5.0
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In [2]: # Program to calculate simple interest
        P = float(input("Enter the principal amount : "))
        N = float(input("Enter the number of years : "))
        R = float(input("Enter the rate of interest : "))
        SI = (P * N * R)/100
        print("Simple interest : {}".format(SI))
        Enter the principal amount : 100
        Enter the number of years : 5
        Enter the rate of interest : 5
        Simple interest: 25.0
In [3]: # Program to calculate area of circle
        PI = 3.14
        radius = float(input(' Please Enter the radius of a circle: '))
        area = PI * radius * radius
        print(" Area Of a Circle = %.2f" %area)
         Please Enter the radius of a circle: 2
         Area Of a Circle = 12.56
In [4]: # Program to calculate area of triangle
        a = float(input('Enter first side: '))
        b = float(input('Enter second side: '))
        c = float(input('Enter third side: '))
        s = (a + b + c) / 2
        area = (s*(s-a)*(s-b)*(s-c)) ** 0.5
        print('The area of the triangle is %0.2f' %area)
        Enter first side: 2
        Enter second side: 3
        Enter third side: 4
        The area of the triangle is 2.90
In [5]: # Program to calculate temperature from celsius to fahrenheit
        celsius = float(input("Enter temperature in celsius: "))
        fahrenheit = (celsius * 9/5) + 32
        print('%.2f Celsius is: %0.2f Fahrenheit' %(celsius, fahrenheit))
        Enter temperature in celsius: 99
        99.00 Celsius is: 210.20 Fahrenheit
In [6]: # Program to calculate area of rectangle
        width = float(input('Please Enter the Width of a Rectangle: '))
        height = float(input('Please Enter the Height of a Rectangle: '))
        Area = width * height
        print("\n Area of a Rectangle is: %.2f" %Area)
        Please Enter the Width of a Rectangle: 2
        Please Enter the Height of a Rectangle: 4
         Area of a Rectangle is: 8.00
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In [7]: # Program to calculate perimetre of square
         print("Enter 'x' for exit.");
         side = input("Enter side length of square: ");
         if side == 'x':
             exit();
         else:
             slength = int(side);
             perimeter = 4*slength;
             print("\nPerimeter of Square =", perimeter);
         Enter 'x' for exit.
         Enter side length of square: 3
         Perimeter of Square = 12
In [8]: # Program to calculate circumference of circle
         rad = input("Enter radius of circle: ");
         if rad == 'x':
             exit();
         else:
             radius = float(rad);
             circumference = 2*3.14*radius;
             print("\nCircumference of Circle =",circumference);
         Enter radius of circle: 2
         Circumference of Circle = 12.56
In [11]: # Program to swap two numbers
         x = 5
         y = 10
         temp = x
         x = y
         y = temp
         print('The value of x after swapping: {}'.format(x))
         print('The value of y after swapping: {}'.format(y))
         The value of x after swapping: 10
         The value of y after swapping: 5
In [ ]:
```