

Assisted Problems

1. Welcome to Bridgelabz!

Write a program that prints "**Welcome to Bridgelabz!**" to the screen.

2. Add Two Numbers

Write a program that takes two numbers as input from the user and prints their sum.

3. Celsius to Fahrenheit Conversion

Write a program that takes the temperature in Celsius as input and converts it to Fahrenheit using the formula:

$$\text{Fahrenheit} = (\text{Celsius} * 9/5) + 32.$$

4. Area of a Circle

Write a program to calculate the area of a circle. Take the radius as input and use the formula:

$$\text{Area} = \pi * \text{radius}^2.$$

5. Volume of a Cylinder

Write a program to calculate the volume of a cylinder. Take the radius and height as inputs and use the formula:

$$\text{Volume} = \pi * \text{radius}^2 * \text{height}.$$

Self Problems

1. Calculate Simple Interest

Write a program to calculate simple interest using the formula:

$$\text{Simple Interest} = (\text{Principal} * \text{Rate} * \text{Time}) / 100.$$

Take Principal, Rate, and Time as inputs from the user.

2. Perimeter of a Rectangle

Write a program to calculate the perimeter of a rectangle. Take the length and width as inputs and use the formula:

$$\text{Perimeter} = 2 * (\text{length} + \text{width}).$$

3. Power Calculation

Write a program that takes two numbers as input: a base and an exponent, and prints the result of base raised to the exponent (without using loops or conditionals).

4. Calculate Average of Three Numbers

Write a program that takes three numbers as input from the user and prints their average.

5. Convert Kilometers to Miles

Write a program that takes the distance in kilometers as input from the user and converts it into miles using the formula:

$$\text{Miles} = \text{Kilometers} * 0.621371.$$

