**PROGRAMMING FUNDAMENTALS (THEORY) [CS-102]**

**Assignment # 01**

**Task 1: Make a program of the given algorithm**

Temperature Converter

**Algorithm:**

1. **Declare variables:**
   * celsius (float): To store the temperature in Celsius
   * fahrenheit (float): To store the temperature in Fahrenheit
2. **Assign value to Celsius:**
   * Assign a value to celsius (e.g., 37.0)
3. **Convert Celsius to Fahrenheit:**
   * Calculate fahrenheit using the formula: fahrenheit = (celsius \* 9/5) + 32
4. **Print the result:**
   * Display the converted temperature in Fahrenheit.
5. **End**

**Task 2: Make a program of the given algorithm**

Area and Perimeter Calculator

**Algorithm:**

1. **Declare variables:**
   * length (float): To store the length of the rectangle
   * width (float): To store the width of the rectangle
   * area (float): To store the calculated area
   * perimeter (float): To store the calculated perimeter
2. **Assign values to length and width:**
   * Assign values to length and width (e.g., 5.0 and 3.0)
3. **Calculate area and perimeter:**
   * Calculate the area using the formula: area = length \* width
   * Calculate the perimeter using the formula: perimeter = 2 \* (length + width)
4. **Print the results:**
   * Display the calculated area and perimeter.
5. **End**

**Assignment should be submitted on time, late submissions will not be entertained and marked as 0.**

**Submit the source code (.c) file**