# DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY UNIVERSITY OF ENGINEERING AND TECHNOLOGY PESHAWAR

# PROGRAMMING FUNDAMENTALS (THEORY) [CS-102]

#### Assignment # 01

# Task 1: Make a program of the given algorithm

Temperature Converter

# Algorithm:

# 1. Declare variables:

- o celsius (float): To store the temperature in Celsius
- o fahrenheit (float): To store the temperature in Fahrenheit

# 2. Assign value to Celsius:

o Assign a value to celsius (e.g., 37.0)

#### 3. Convert Celsius to Fahrenheit:

o Calculate fahrenheit using the formula: fahrenheit = (celsius \* 9/5) + 32

# 4. Print the result:

o 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:

- o length (float): To store the length of the rectangle
- o width (float): To store the width of the rectangle
- o area (float): To store the calculated area
- o perimeter (float): To store the calculated perimeter

# 2. Assign values to length and width:

o 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:

