



National University of Computer and Emerging Sciences

Program: BS(SE)

Section: C

Date: Sep 12, 2024,

Student Name: _____

Registration No. _____

Total Marks: 15 marks

Time Allowed: 15 minutes

Instructor: Bilal Khalid Dar

Student Signature: _____

Important Instructions for attempting Quiz

READ ALL QUESTIONS AND INSTRUCTIONS CAREFULLY

- Carrying of Mobile phone, digital dairies, digital watch, or any electronic device is not allowed.
- Use only Black/Blue color pen. Sharing of anything is forbidden
- **Write your answer in provided space. No answer will be marked outside given space**
- **CUTTING IS NOT ALLOWED.** All questions are self-explanatory and require no further explanations during exam time. Read all questions
- **RETURN the Quiz paper after completion.**

QUIZ 2 - a

Q1. Write a C++ program that takes a temperature in Celsius as input and converts it to Fahrenheit.

Formula:

$$\text{Fahrenheit} = \left(\text{Celsius} \times \frac{9}{5} \right) + 32$$

Students will write a C++ code to take input of Celsius temperature and convert it to Fahrenheit using following formula

Fahrenheit = (celsius * 9.0 / 5.0) + 32;

Then output it

Q2. Write a program which takes two numbers as input , then swaps the values of those variables

Example:

Enter first number (a): 8

Enter second number (b): 12

Before swapping: a = 8, b = 12

After swapping: a = 12, b = 8

```
#include <iostream>
using namespace std;
```

```
int main() {
    int num1, num2, temp;
```

```
// Taking input from the user
cout << "Enter first number: ";
cin >> num1;
cout << "Enter second number: ";
cin >> num2;

// Display original values
cout << "Before swapping: num1 = " << num1 << ", num2 = " << num2 <<
endl;

// Swapping the values using a temporary variable
temp = num1;
num1 = num2;
num2 = temp;

// Display swapped values
cout << "After swapping: num1 = " << num1 << ", num2 = " << num2 << endl;

return 0;
}
```



National University of Computer and Emerging Sciences

Program: BS(SE)

Section: C

Date: Sep 12, 2024,

Student Name: _____

Registration No. _____

Total Marks: 15 marks

Time Allowed: 15 minutes

Instructor: Bilal Khalid Dar

Student Signature: _____

QUIZ 2 – b

Q1. Write a C++ program that takes a temperature in Fahrenheit as input and converts it to Kelvin.

Formula:

K stands for **Kelvin** and **F** stands for **Fahrenheit**

$$K = \frac{5}{9} \times (F - 32) + 273.15$$

Students will write a C++ code to take input of Fahrenheit temperature and convert it to Kelvin using following formula

kelvin = (5.0 / 9.0) * (fahrenheit - 32) + 273.15;

Then output it

Incorrect formula and process = 0 marks. Correct 7.5 marks

Q2. Write a program that takes a number as input and prints its absolute value using the ternary operator.

```
#include <iostream>
using namespace std;
```

```
int main() {
    int number, absoluteValue;

    // Take input from the user
    cout << "Enter a number: ";
    cin >> number;
    absoluteValue = (number < 0) ? -number : number;

    // Print the absolute value
    cout << "The absolute value is: " << absoluteValue << endl;

    return 0;
}
```

Marking = 0 marks. Correct 7.5 marks