



Assignment 1

Practical Exercises

Programming Fundamentals

Instructions:

1. Read all instructions.
2. Prepare your algorithms
3. Write your program code.

Total : _____/70

Practical Exercises : Programming Fundamentals

For each of the following problems, start by developing the program logic, (Flowchart, or algorithm (pseudocode), then develop each solution in C# code.

Each question - 10 Marks

Q1. Write a C# Sharp program to print the result of the specified operations.

Test data:

Expected Output:

- | | |
|-----------------------------|----|
| • $-1 + 4 * 6$ | 23 |
| • $(35 + 5) \% 7$ | 5 |
| • $14 + -4 * 6 / 11$ | 12 |
| • $2 + 15 / 6 * 1 - 7 \% 2$ | 3 |

Q2. Write a C# Sharp program to swap two numbers.

Test Data:

Input the First Number : 5

Input the Second Number : 6

Expected Output:

After Swapping :

First Number : 6

Second Number : 5

Q3. Write a C# program with a method to compute the sum of two given integers, if two values are equal then return the triple of their sum.

Q4. Write a C# program to convert from celsius degrees to Kelvin and Fahrenheit.

Test Data:

Enter the amount of celsius: 30

Expected Output:

Kelvin = 303

Fahrenheit = 86

Note :- $kelvin = celsius + 273$ // $fahrenheit = celsius * 18 / 10 + 32$

Q5. Write a C# program to print the odd numbers from 1 to 99. Prints one number per line.

Q6. If the user pressed number keys(from 0 to 9), the program will display the number that is pressed, otherwise the program will show "Not allowed".

Q7. Create a program to ask the user for a real number and display its square root. Errors must be trapped using "try..catch".