National University of Computer & Emerging Sciences

Lab # 5

For

Programming Fundamentals - Lab

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FAST School of Computing

Instructions:

1. Attempt all your questions on visual studio, once done paste your code and it's screenshot in a word file clearly marking its question number
2. Plagiarism is strictly prohibited.
3. Late submissions are not allowed.
4. This is a solo programming task.
5. Write your roll numbers, lab#, section and date in the name of the file e.g., "ROLLNUM_LAB#_SECTION"
6. Test your code with at least **three** sets of inputs.

0. Basic Output

Write a program to output your name, roll number and hobby in three separate lines.

1. Addition:

- Write a program that takes two numbers as input and outputs their sum.

2. Subtraction:

- Create a program that takes two numbers as input and outputs their difference.

3. Multiplication:

- Develop a program that takes seven numbers as input and outputs their product.

4. Division:

- Write a program that takes two numbers as input and outputs the result of dividing the first number by the second.

5. Average of Five Numbers:

- Create a program that takes five numbers as input and outputs their average.

6. Square of a Number:

- Write a program that takes a number as input and outputs its square.

7. Cube of a Number:

- Develop a program that takes a number as input and outputs its cube.

8. Area of a Rectangle:

- Create a program that takes the length and width of a rectangle as input and outputs its area.

9. Area of a Circle:

- Write a program that takes the radius of a circle as input and outputs its area.

10. Simple Interest:

- Develop a program that takes principal amount, rate of interest, and time as input and outputs the simple interest.

11. Conversion: Fahrenheit to Celsius:

- Create a program that takes a temperature in Fahrenheit as input and outputs its equivalent in Celsius.

12. Conversion: Celsius to Fahrenheit:

- Write a program that takes a temperature in Celsius as input and outputs its equivalent in Fahrenheit.

13. Sum of Digits:

- Create a program that takes a two-digit number as input and outputs the sum of its digits.

14. Reverse a Four-Digit Number:

- Write a program that takes a four-digit number as input, reverses it and stores it in another variable and outputs the number with its digits reversed.