

1.a ✓ Using appropriate example, describe various types of errors that may occur while writing a program. Also explain what is compile time error and runtime error.

1.b ✓ Create an algorithm and a flowchart that will compute the sum of two numbers. If the sum is below or equal to twenty two numbers will be entered again. If the sum is above 20, it will display the sum.

2.a ✓ Write a C program to print the smallest of 3 ~~num~~ numbers entered by the user.

2.b ✓ Write a C program to perform arithmetic operations on two numbers entered by the user. Use switch case statements to perform the operation selected by the user. Use +, -, \*, / as choice for performing addition, subtraction, multiplication, and division respectively.

3.a] Using FOR loops write a C program to display the following pattern.

1  
23

456

78

9

3.b ✓ Using WHILE loop write a C program to  
Print factorial of the entered number.  
(For example, if the entered number is 5,  
the factorial of 5 will be calculated  
as  $5 \times 4 \times 3 \times 2 \times 1 = 120$ ).