

## Assignment # 4 – Class XI – Computer Science

### Chapter 6: Getting Started with C++

1. What is a lexical unit ? Name the lexical units being used in C++.
2. What are literals ? Explain the different types of literals being used in C++.
3. What is the difference between '=' and '==' operators?
4. Which of the following are valid/ invalid operands :  
height , main , rollno-5 , my address , 2day , class
5. What is the difference between '5' , 5 and " 5" ?
6. Identify the errors in the following program :

```
void main()
{
    int x
    char endl;
    x=3;
    cin>>endl;
    cout<<x<<3
}
```

7. Explain the two different ways to give comments in C++.
8. Differentiate between '<<' and '>>' operators.
9. 'Every C++ program must have a main().' Why ?
10. Explain the different types of errors that may occur while programming .
11. What will be the output of the following code :

- (i) cout<<"#\n\*\*\n###\n\*\*\*\*\n";
- (ii) char a= '@';  
cout << a;  
cout<<'a';

### PROGRAMS

#### ( to be done in the lab during practical periods )

1. To create a formatted output screen as given in the lab.
2. Write a C++ program that accepts marks and displays the percentage. Assume maximum marks is 50.
3. Write a program that accepts the temperature in percentage and displays in Fahrenheit
4. Write a program that accepts length , breadth and then displays the area and perimeter of a rectangle.

Note :

1. All programs must have a comment entry on the top indicating what exactly the program is about.
2. Proper messages should be given for input and output operations.
3. All programs should be properly indented.

## **Chapter 7 : Data Handling**

1. Name the fundamental data types along with the number of bytes they occupy.
2. Explain integer type modifiers
3. Define the following –
  - (i) Array
  - (ii) Pointer
  - (iii) Reference
  - (iv) Enumeration
4. Differentiate between a class and a structure.
5. Explain 'const' modifier with an example.
6. Why do we need to initialize variable?
7. An unsigned int can be twice as large as signed int?

### **Programs**

1. Write a program that accepts a number, say num and print num, num<sup>2</sup>, num<sup>3</sup>, num<sup>4</sup> and num<sup>5</sup>.
2. Write a program to accept two numbers and print their quotient and remainder.
3. Write a program to compute simple interest after accepting principal, Rate and Time. Include the header file `iomani.h` and display the S.I. using `setw()`, `setprecision()`, `setf()`.