



**7th, KM Haridwar, National Highway Vardhmanpuram,  
Roorkee, Rehmadpur, Uttarakhand 247667**

## Functions and OOPs Concepts in C++

### Objective:



**7th, KM Haridwar, National Highway Vardhmanpuram,  
Roorkee, Rehmadvpur, Uttarakhand 247667**

Display all details using functions.

14. Write a program to demonstrate function overloading (compile-time polymorphism). Create a class Calculator with overloaded functions add (int, int) and add (double, double) to perform addition.
15. Write a program to demonstrate abstraction using an abstract class Shape. Define a pure virtual function area (), and create derived classes Circle and Rectangle to calculate and display their areas.

### **Instructions:**

- Write comment to make your programs readable.
- Use descriptive variables in your programs (Name of the variables should show their purposes)

### **Guidelines:**

- Use Clear and Consistent Syntax
- Manage Variables and Data Types Correctly
- Handle Input/Output Effectively

### **Submission:**

- Submit the source code files (.cpp) for each task along with a brief report documenting the implementation details and the results of the executions.