

## Lab Work

1. Write a program to create a class “University” with a method to print University name, and create a child class “College” of it with method “show()” to print College name? (using obj. of the child class, access the methods of parent and child) (**Single Inheritance**)
2. Write a program to create a class “University” with a variable University name and create a child class “College” with a variable “college name” and a method “show()” to assign names and print the names of both University and college? (using obj. of child class, access the method of parent) (**Single Inheritance**)
3. Write a program to create a class “Addition” with a method to print the sum of numbers between 100 to 150 and create a child class “sum” to access the parent class method to print the sum? (using obj. of the child class, access the method) (**Single Inheritance**)
4. Write a program to create a class “S” with sum(int x, int y) and create a child class of S as “M” with multiplication(int a, int b) and again create a child class of M as “SM” to access these two methods with a object to print the sum and multiplication? (pass the values as arguments to the methods) (**Multilevel Inheritance**)
5. Write a program to create a class “viruseffect” with a method “symptoms()” to print the symptoms, create a child class “alphavirus” and another child class “betavirus”. From betavirus class access the method symptoms() using alphavirus object and betavirus object to print the symptoms? (**Hierarchical Inheritance**)