

Task#01

Write a C++ class named as **shape** that have:

- a. Two protected data members **"width"** and **"height"**.
- b. Implement **"setWidth"** and **"setHeight"** member functions .
- c. Inherit rectangle class from shape class with a function **"getArea"** that calculated area of rectangle.
- d. Inherit square class from shape class with a function **"getArea"** that calculated area of square.
- e. In main function assign values to required variables for area calculation and print total area for both square and rectangle.

Task#02

write a C++ program with following classes:

a. "BasicInfo"

1. protected data members `name(char)`, `empId(int)`, `gender(char)`.
2. Public member function **"getBasicInfo"** that takes `name`, `empid` and `gender` from user.

b. "DepartmentInfo"

1. Protected data members `deptName(char)`, `assignedWork(char)`, `time2complete(int)`.
2. Public member function **"getDeptInfo"** that takes `deptName`, `assignedWork` and `time2complete` from user.

c. "Employee"

1. Must be inherited from class **"BasicInfo"** and **"DepartmentInfo"**.
2. public data member **"getEmployeeInfo"** that calls **"getBasicInfo"** and **"getDeptInfo"** thus makes system to prompt inputs from user.
3. public data member **"printEmployeeInfo"** that prints all inputs entered by user.
4. Call **getEmployeeInfo** and **printEmployeeInfo** from main.

Lab#09
Object oriented programming.
20/12/2022

Task#03

Write a c++ program with following classes:

- a. **"Number"** class private data member "num" and public member functions **"getNumber"** and **"returnNumber"**.
- b. **"Square"** class that inherits from "number" class and calculates square of entered number.
- c. **"cube"** class that calculated cube of number.
- d. Print square and cube of number in main function.