C++ Assignments

1. Create Student class with data members
   RollNo
   Name
   Course
   and implement following
   - Default constructor
   - Parameterized constructor
   - Destructor
   - Function to accept data
   - Function for display data
   - Write main function and create array of students and store data of multiple students in array.
   - Write Function to find student by Roll No

2. Create Time class with data members
   hours
   minutes
   seconds
   and implement following
   - Default constructor
   - Parameterized constructor
   - Destructor
   - Function for display data
   - Function to compare two time objects
   - Function to find out difference between two time objects

3. Create Date class with data members
   dd
   mm
   yyyy

and implement following

- Default constructor
- Parameterized constructor
- Destructor
- Function to find out difference between two dates
- Function to compare dates
- Separate header and implementation files
- Overlaod ==, !=, +, - operator

4. Create Your own String class (Use class name as MyString) with data members
   char * p;
   int size;

Allocate memory dynamically for pointer and get size from user.
Implement followings

- Default constructor
- Parameterized constructor
- Copy Constructor
- Destructor for clean-up (use delete compulsory)
- Display function.
- Separate header and implementation files

5. Create Player class with data members
   name
   age
   country

Implement followings

- Default constructor
- Parameterized constructor
- Function to Sort Array of Player objects (implement as global, sorting should be one name and age)
- Accept Function for data input
- Display function for data display
- Separate header and implementation files
- In main function create array of player objects and pass it to Sort function and print sorted player list

6. Create Address class with data members
   HouseNo
   Colony
   Area
   City
   Pincode

Implement followings

a. Default constructor
b. Parameterized constructor
c. Accept Function for data input
d. Display function for data display
e. Separate header and implementation files
f. Write function to find whether two addresses are same or different.
g. Overlaod == operator

7. Create **Payslip** class with data members
   EmpNo
   EmpName
   DA
   HRA
   BasicSalary

Implement followings

   a. Default constructor
   b. Parameterized constructor
   c. Accept Function for data input
   d. Display function for data display
   e. Function to calculate salary from DA, HRA and Basic Salary
   f. Separate header and implementation files

8. Create **MobilePhone** class with data members
   ModelNo
   Price
   Manufacturer
   Quantity

Implement followings

   a. Default constructor
   b. Parameterized constructor
   c. Accept Function for data input
   d. Display function for data display
   e. Function to search MobilePhone model availability
   f. Write menu driven program with following menus
      i. Add Mobile
      ii. Display List of available mobiles
      iii. Find out quantity of particular mobile type
      iv. Find out availability of Particular model