

**Shree Swminarayan College Of Computer Science  
Sardarnagar, Bhavnagar**

202- OOP With C++

Assignment -3

1	Create class date to represent the date in dd/mm/yyyy format. Write a C++ program to get and print the birth date of student and display it.
2	Create class time to represent the time in hh:mm:ss format. Write a C++ program to get and print the time.
3	Create class date to represent the date in dd/mm/yyyy format. Write a C++ program to perform following operation:  1. Get date data 2. print date data 3. find next day 4. next previous day.
4	Create class employee to maintain following information of employee. Employee no, Employee Name, basic salary , HRA in percentage, DA in percentage, PF in percentage. Write a C++ program to maintain employee details and calculate net salary. Create member function allowance () to calculate allowance, member function deduction () to calculate deduction.
5	Create class electricity Class electricity { Char name[20]; Int pmr,cmr,cu; //pmr = previous meter reading, cmr= current meter reading Long cnum; //customer number Float bill_amount; Public Void get(); Void show(); Void calc(); }; Write a c++ program to print the electricity bill. The bill is calculated as per given rules 1. For first 50 units charge Rs. 0.75. 2. For second 100 units charge Rs. 1.00 3. For next 100 units charge Rs 1.50 4. For remaining all units charge Rs. 2.00
6	Create class array to represent the array of 10 integers values. Class array { int no[10]; public: void getarray(); void putarray(); void sort(); int search(); }; Write c++ program to sort array elements using selection and search data from array using binary search method function should return the position of elements if data is not found function should return value 1.
7	Create class student to represent students rollno, name and age. Write a C++ program to get and print the student data.
8	Create class student to represent the students rollno, name mark of 3 subjects, total and percentage. Write a C++ program to get the information of student and display the result. Define appropriate member function.

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9	Create class text to represent the character string to 30 characters. Write a c++ program to convert print the text in upper case, lowercase, proper case and toggle case. Define appropriate member function.
10	Create class matrix to represent the 3 X 3 Matrix. Write C++ program to read and print a matrix.
11	Create class array to represent the array of 10 elements. Write a C++ program to find out the maximum and minimum elements from array. Define appropriate member function.
12	Create class time to represent the time in hh:mm:ss , write a C++ program to create two object of time and swap the value of two object. Define appropriate member function.
13	Create class date to represent the date in dd:mm:yyyy. Write a C++ program to create two object of date and display the maximum and minimum date.
14	Create class book to represent accno, title, author and price of book. Write a C++ program to get information of 10 books and print it.
15	Create class book to represent accno, title, author and price of book. Write a C++ program to get information of 10 books and print details of costliest and chipset book. define appropriate member function.