

**202- Object Oriented Programming With C++**

**SSCCS : SYBCA Practice Program**

- 1 Write a C++ program to Print your name and address using Cout.
2. Write a C++ program to get two integer values using Cin object and print sum of two values.
- 3 Write a C++ program to find out the average of 10 values using array. Use cin and cout object to get and print the value.
- 4 Write a C++ program to sort the n-elements of an array using function sort(a,n) using selection sort,
- 5 Write a C++ program to swap the value of two variable using function swap(int ,int). print the swap value of variable in swap() function.[Use call by value]
- 6 Write a c++ program to swap the value of two variable using function swap( int &, int &). print the swap value of variable in main() function. [ use call by reference ].
- 7 Write a function add(int,int) for addition of two number and add(int , int, int) for addition of three number.(Function Overloading)
- 8 Write a c++ program to find out the length of string without using strlen() function.
- 9 Write a C++ program to perform addition of two matrix using 3D matrix 2D matrix. Over load a function add\_matrix() to perform addition using 3D and 2D matrix.
- 10 Write a C++ program to find out maximum value using function max(int,int) , to find max value from two given integer and max(int,int,int) to find the max value from three given integer.
- 11 Create structure student(rollno ,name,age). Write a program to read the information of five student and print t using function print().
- 12 Create structure student(rollno ,name,age). Write a program to read the information of five student and print the the information of student whose age is maximum. Write function max\_Age() to find out the maximum age student and print the information of this student using function main().
- 13 Create class student  
Calss student  
{  
    Int rollno;  
    Char name[30];  
    Int length  
    Public:  
        Getdata();  
        Putdata()  
        find\_length();  
};  
Create object of class student , write getdata() function to get the student information, write find\_length() function to find the length of student name. write pud\_data function to print the (rollno,name and length).
- 14 Create class number  
Class number  
{  
    Int m[10]  
    Public:  
        Void getdata() //to get member data  
        Void putdata() // to display data  
        Void sort() // to sort member  
        Void max() //to find out the maximum value from object elements  
        Void min() //to find out the minimum value from elements

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```
}  
Create an object of class number and perform appropriate operation.
```

15 Create a class item

```
Class item  
{  
    Int itemno;  
    Int qty;  
    Int rate;  
Public  
    Void getitem()  
    Void putitem()  
}
```

Create five item i[5] using class item. Use getitem() function to get the value of all items and use putitem() to print the information of all items (itemno,qty,rate and amount)

16 Create class book

```
Class book  
{  
    Int accno;  
    Char name[30];  
    Void printdata()  
public:  
    void getdata()  
}
```

Write c++ program to get item data and print item data.

17 Create class book

```
Class book  
{  
    int accno;  
    char name[30];  
    flaot price;  
    int search(char [])  
public:  
    void getdata();  
    void putdata();  
};
```

Write C++ program to create five object of book, get information of book using getdata() function, Write search() function to search a specified book, if book is search return the index no of book and print the information of book using putdata() function.

18 Create class matrix

```
Class matrix  
{  
    Int m[3][3];  
Public:  
    Void getdata();  
    Void putdata();  
}
```

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```
Void coltotal();  
Void rowtotal();
```

}

Write a C++ program to create a object of matrix . Read information about matrix using getdata() function , use putdata() function to print matrix, use coltotal() and rowtotal() to perform column total and row total respectively.

19 Class book

```
{  
    Int accno;  
    Char name[30];  
    Float price  
    Int qty  
public:  
    <member function>  
}  
};
```

Write menu driven program to perform following task for class book.

1. Add New Book
2. Display list of all books
3. Search a specified book
4. Count total number of books
5. Calculate the total cost of book
6. Exit.

20 Create class employee

```
Class employee  
{  
    Int empno  
    Char name[50]  
    Int age  
Public:  
    Void getdata()  
    Void sortdata(employee )  
    Void printdata();  
}
```

Write a C++ program to get the information of 10 employee using getdata() function and print the information of employee in ascending order of age.