

1. WAP to Demonstrate Class, Object (OOP) Concept
2. WAP to find the largest of three numbers using inline function.
3. WAP to implement function overloading in order to compute power (m, n),
Where i) m is double and n is int
ii) m and n are int
4. Create a DISTANCE class with
 - Feet and inches as data members
 - Member function to input distance
 - Member function to output distance
 - Member function to add two distance objects
 - Write a main function to create objects of DISTANCE class.
 - Input two distances and output the sum.
5. Create a Class called TIME that has
 - Three integer data members for hours, minutes and seconds.
 - Constructor to initialize the object to zero.
 - Constructor to initialize the object to some constant value.
 - Member functions to add two TIME objects.
 - Member function to display time in HH:MM:SS format.
6. Create a class COMPLEX to hold a complex number, write a friend function to add two complex Numbers. Write a main function to add two complex objects.
7. Create a MATRIX class of size m X n. Overload the '+' operator to add two MATRIX objects. Write a main function to implement it.
8. Derive a class MAT from MATRIX class created in above program, add a member function to
Overload '*' operator to multiply two objects (Single Inheritance).
9. WAP to Illustrate Multilevel Inheritance.
10. WAP to Demonstrate Multiple Inheritances.
11. Create a STRING class which overloads '==' operator to compare two STRING objects.
12. WAP to demonstrate Virtual Base Class Concept.
13. WAP to demonstrate template class
14. WAP to demonstrate template function.
15. WAP to demonstrate the concept of call by reference.

Examination:

1. One Question has to be given from the above list (Carries 25 Marks).
2. One more question has to be given by the examiner by his choice and that question need not be in the list (Carries 15 Marks).
3. Student has to answer and execute both questions.

Marks Distribution:

Criteria Marks

Question from The List Examiner's Question

Practical

Proper

Writing Program 25 20

Execution 20 15

Total **80**

Viva/Report 20

Total **100**

1. WAP to Demonstrate Class, Object (OOP) Concept.

```
#include<iostream.h>
#include<conio.h>

class Vehicle
{
    int no_gear;
    int no_wheels;
public:
    void getVehicleDetails()
    {
        cout<<"Enter the no_gear and no_wheels"<<endl;
        cin>>no_gear>>no_wheels;
    }
    void printVehicleDetails()
    {
        cout<<"No of gears:"<<no_gear<<endl<<"No of wheels:"
        <<no_wheels<<endl;
    }
};
void main()
{
    clrscr();
    Vehicle car,bike;
    cout<<"***Car Details***"<<endl;
    car.getVehicleDetails();
    car.printVehicleDetails();
    cout<<"***Bike Details***"<<endl;
    bike.getVehicleDetails();
    bike.printVehicleDetails();
    getch();
}
```

OUTPUT:

```
***Car Details***
Enter the no_gear and no_wheels
5
4
No of gears:5
No of wheels:4
***Bike Details***
Enter the no_gear and no_wheels
4
2
No of gears:4
No of wheels:2
```


2. WAP to find the largest of three numbers using inline function.

```
#include<iostream.h>
#include<conio.h>

inline int max(int x, int y,int z)
{
    return (x > y)? (x>z?x:z) : (y>z?y:z);
}

// Main function for the program
void main( )
{
    clrscr();
    cout<<"*****Inline demo*****"<<endl;
    cout << "Max (10,20,30): " << max(10,20,30) << endl;
    getch();
}
```

OUTPUT:



```
*****Inline demo*****
Max (10,20,30): 30
_
```

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