

**BAL BHARATI PUBLIC SCHOOL**

**Ganga Ram Hospital Marg, New Delhi-60**

CLASS –XII

ASSIGNMENT- 2

SUBJECT – COMPUTER SCIENCE

TOPIC – Classes and Objects

1. A class is defined without any data member. What is the size of the class?
2. List the various access-specifiers of a class. Explain each w.r.t. their visibility.
3. How is a member function different from an ordinary function?
4. Declare and define class Student having the following members:  
Private members :  
Student Roll No. - integer  
Student Name - 20 characters  
Student Age - integer  
Student Marks – Float array for eng, maths, science  
Ctotal() - Function to calculate eng+maths+science  
  
Public members:  
Takedata() - To read all data members and invoke the function Ctotal()  
Showdata() - To display all data members
5. Explain the concepts of OOPs w.r.t. the above class.
6. What are inline functions? Explain the concept of inline for member and non-member functions.
7. What is wrong with this – Class C {public: int x=0;};
8. Time is a class with the following data members and member function:  
Data members: hours(int), minutes(int), seconds(int)  
Member functions: to read values, to calculate the difference between two times, to display time  
Complete the program with the declarations and definitions. Read a time in main() and pass it to the function to find the difference.
9. Declare and define class Applicant having the following members:  
Private members :  
Admission No. - long  
Name - 20 characters  
Aggregate marks - Float  
Grade – Char  
GradeMe() - Function to find Grade as per Aggregate marks as follows:  
Aggregate Marks                      Grade  
≥80                                      A  
Less than 80 and ≥65                      B

Public members:

ENTER() - To read all data members and invoke the function GradeMe()

RESULT() - To display all data members

10. Rewrite the given code after correcting all the errors:

```
Class X{
    int a;
    static int c;
    public:
        void initial(void) {
            a = c = 0;
        }
        static void call() {
            cout<<c<<a;
        }
}
```