



# INDIAN SCHOOL DARSAIT DEPARTMENT OF ICT



**Subject:** Computer Science

**Topic:** Class & Object

**Lab Worksheet No.:** 2

**Resource Person(s):** Roilet Noronha

**Date:** \_\_\_\_\_

**Name of the Student :** \_\_\_\_\_

**Class & Div:** XII A **Roll Number :** \_\_\_\_\_

**Write C++ Program to the following:**

1. Define a class Employee in C++ with following description:

*Private:*

- Eno (Integer)
- Ename (String)
- Salary (Floating)
- Da, Hra, Net (Floating)
- Cal() – To calculate net = Salary+ Da (10% sal) + Hra(5% sal)

*Public:*

- Enter() – To enter the details of Eno, Ename and Salary and call the function Cal( )
- Display() – To display all the details

2. Define a class Applicant in C++ with following description:

*Private Members:*

- A data member ANo ( Admission Number) of type int
- A data member Name of type string
- A data member Agg(Aggregate Marks) of type float
- A data member Grade of type char
- A member function GradeMe( ) to find the Grade as per the Aggregate Marks obtained by a student.

Equivalent Aggregate marks range and the respective Grades are shown as follows:

<u>Aggregate Marks</u>	<u>Grade</u>
> = 80	A
Less than 80 and > = 65	B
Less than 65 and > = 50	C
Less than 50 and > = 33	D
Less than 33	E

*Public Members:*

- A function Enter( ) to allow user to enter values for ANo, Name, Agg & call function GradeMe( ) to find the Grade
- A function Result ( ) to allow user to view the content of all the data members

3. Define a class DanceAcademy in C++ with following description:

*Private Members:*

- Enrollno of type int
- Name of type string
- Style of type string
- Fee of type float

A member function chkfee( ) to assign the value of fee variable according to the style entered by the user according to the criteria as given below:

Style	Fee
Classical	10000
Western	8000
Freestyle	11000

*Public Members:*

A function enrollment() to allow users to enter values for Enrollno, Name, Style and call function chkfee() to assign value of fee variable according to the Style entered by the user.

A function display() to allow users to view the details of all the data members.

4.

Write the definition of a class PIC in C++ with following description :

**Private Members**

- Pno //Data member for Picture Number (an integer)
- Category //Data member for Picture Category (a string)
- Location //Data member for Exhibition Location (a string)
- FixLocation //A member function to assign  
//Exhibition Location as per category  
//as shown in the following table

Category	Location
Classic	Amina
Modern	Jim Plaq
Antique	Ustad Khan

**Public Members**

- Enter() //A function to allow user to enter values  
//Pno, category and call FixLocation() function
- SeeAll() //A function to display all the data members

5. Define a class ITEM in C++ with the following description :

*Private Members:*

- Code of type integer (Item Code)
- Iname of type string (Item Name)
- Price of type float (Price of each item)
- Qty of type integer (Quantity of item in stock)
- A member function GetOffer( ) to calculate Offer and return the value as per the following rule :
  - If Qty <= 50 Offer is 0
  - If 50 < Qty <= 100 Offer is 5
  - If Qty >100 Offer is 10

*Public Members:*

- A function GetStock( ) to allow user to enter values for Code, Iname, Price, Qty
- ShowItem( ) to allow user to view the content of all the data members and based on GetOffer( ) display the offer value