



# INDIAN SCHOOL DARSAIT DEPARTMENT OF ICT



**Subject:** Computer Science

**Topic:** Constructor and Destructor

**Lab Worksheet No.:**3

**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 RESTRA with the following specifications

**Private members:**

Foodcode (integer), Food(string),Ftype(string),Sticker(string).

A member function Getsticker() to assign the following values for sticker as per the given

Ftype:

Ftype	Sticker
Vegetarian	Green
Contains Egg	Yellow
Non Vegetarian	Red

**Public functions:**

- A constructor function to assign values for Data members as Foodcode is 0, Food, Ftype as null character and Sticker as Green.
- A Function Getfood() to allow the user to enter vales of Foodcode,Food,Ftype and call the function Getsticker() to assign Sticker.
- A function Showfood() to allow the user to display the content of all the data members.

Write the main to input one object of RESTRA and display the details.

2. Define a class SPORTS with the following specifications

**Private data members:**

Name 20 characters

Team 20 characters

Runsscored long integer

Matches integer

**Public functions:**

- Default constructor to initialize members with the following values “Dhoni”, “India”, 25678, 150
- Parameterized constructor takes an argument r and assigns it to the Runsscored and provides other members with valid values
- Copy constructor to assign values of all data members of One object to another object
- chkmatches() function that prints the name of the Player if he has played in more than 50 Matches
- Displaydetails() function to display all the details of a Player
- Destructor to display the message “Destroying object .....

Write a Program to create three objects, one using default constructor, one using parameterized constructor and one using the copy constructor (assign the first object to the third object). Print the details of all the three players.