

Classes and Objects

- C Structure Revised
- Specifying Class
 - Visibility Labels / Access Specifiers
(Public, Private, Protected)
 - Creating a Class
 - Creating an Object
 - Accessing Class Members
- Defining Member Functions
 - Outside the Class Definition
 - Inside the Class Definition
- A C++ Program with Class

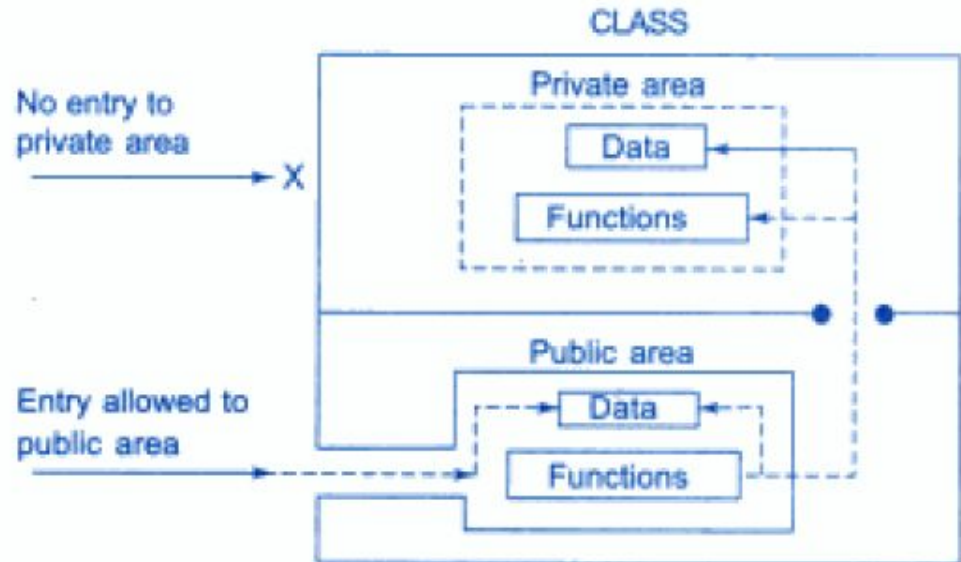
C Structure

```
struct student
{
    Char name[20];
    int misNo;
    Float per;
};

struct student s;
```

Specifying a Class

```
class class_name
{
    private:
        variable declarations;
        function declarations;
    public:
        variable declarations;
        function declaration;
};
```



Specifying a Class

A typical class declaration would look like:

```
class item
{
    int number;           // variables declaration
    float cost;          // private by default
public:
    void getdata(int a, float b); // functions declaration
    void putdata(void);           // using prototype
}; // ends with semicolon
```

- Creation of an Object
- Accessing Class Members

Defining Member Functions

Member functions can be defined in two places

- Inside the Class Definition
- Outside the Class Definition

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```
return-type class-name :: function-name (argument declaration)
{
    Function body
}
```