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Object Oriented Programming.

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Exp. 3: Scope Resolution
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1 Activity: Write a C++ code to illustrate use of
            scope resolution operator in accessing member
            functions outside a class.
  # include < iostream >
   using namespace std;
   class Book
      int id;
      string name;
      int price;
   public:
      void setData (int);
      void display ();
       int getId();
       int getPrice ();
    3;
   void Book :: set Data (int a)
      id = a;
      cout < c " Enter Book Name : ";
      cin >> name;
      cout << " In Enter price : ";
```

cin >> price;

```
void Book :: display ()
   cout << " In Book Data In Id: " << id << "In Name:"
        << mame << "In Price: " << price;
int
     Book :: getId()
    return id;
int Book :: getPrice()
    return price;
int main ()
4
   Book bi;
   61. set Data (121);
   bl. display ();
   cout << b1. get Price () << end1;
  return 0;
```

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- 1. To define a function outside a class, which operator is used.
- 2. Which operator is used to eliminate ambiguity in mutiple inheritance.

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- 3- How can you access the class nested inside another class &
- > We can access the nested class using the scope resolution operator (::).
 Let's consider, the name of class which is
 - nested is called 'Inner' & the name of class in which it is nested is 'Outer'. Now, we have to access the Inner class, we can access it using the Following syntax.

Outer:: Inner obj;

- 4. Operator such as :: cannot be overloaded.
- ⇒ specifies a particular class.

O Conclusion: The scope resolution operator (::) is used
for following purposes.
(i) To define a function outside a class
(ii) To eliminate ambiguity in multiple inheritance
(iii) To access global variable when there is a local
variable with same name.
(iv) To access class's static variables.
(V) To access a class inside another class i.e.
nested class.
Scope resolution operator cannot be
overloaded.
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