# C++ Object and Class

Since C++ is an object-oriented language, program is designed using objects and classes in C++.

C++ Object

In C++, Object is a real world entity, for example, chair, car, pen, mobile, laptop etc.

In other words, object is an entity that has state and behavior. Here, state means data and behavior means functionality.

Object is a runtime entity, it is created at runtime.

Object is an instance of a class. All the members of the class can be accessed through object.

Let's see an example to create object of student class using s1 as the reference variable.

1. Student s1;  //creating an object of Student

In this example, Student is the type and s1 is the reference variable that refers to the instance of Student class.

|  |  |
| --- | --- |
| C++ Object and Class Example | C++ Class Example: Initialize and Display data through method |
| #include <iostream>using namespace std;class fucker{public:int id;string name;};int main(){fucker fuck;fuck.id = 50;fuck.name = "Malicendra";cout << fuck.id << endl;cout << fuck.name << endl;return(0);}/\*50Malicendra\*/ | #include <iostream>  using namespace std;  class fucker{  public:  int id;  string name;  void insert (int \_id, string \_name){  id = \_id;  name = \_name;  }  void display(){  cout << "Fucker's id : " << id << " Fucker's name is : " << name << endl;  }  };  int main(){  fucker f;  fucker f1;  f.insert(102, "Grejoy");  f1.insert(103, "Ygitti");  f.display();  f1.display();  return(0);  }  **/\*Fucker's id : 102 Fucker's name is : Grejoy**  **Fucker's id : 103 Fucker's name is : Ygitti\*/** |

|  |  |
| --- | --- |
| C++ Class Example: Store and Display Employee Information |  |
| #include <iostream>  using namespace std;  class fucker{  public:  int id;  string name;  float salary;  void insert (int \_id, string \_name, float \_salary){  id = \_id;  name = \_name;  salary = \_salary;  }  void display(){  cout << "Fucker's id : " << id << " Fucker's name is : " << name << " Fucker's name is : " << salary << endl;  }  };  int main(){  fucker f;  fucker f1;  f.insert(102, "Grejoy", 5.5);  f1.insert(103, "Ygitti", 10.50);  f.display();  f1.display();  return(0);  }  /\*Fucker's id : 102 Fucker's name is : Grejoy Fucker's name is : 5.5  Fucker's id : 103 Fucker's name is : Ygitti Fucker's name is : 10.5\*/ |  |