SUBJECT: OBJECT ORIENTED PROGRAMMING USING C++

Object in Object Oriented Programming

Elementrix Classes

Object in Object Oriented Programming

A class is only logical representation of data. Hence to work with the data represented by the class you must create a variable for the class which is called as an object.

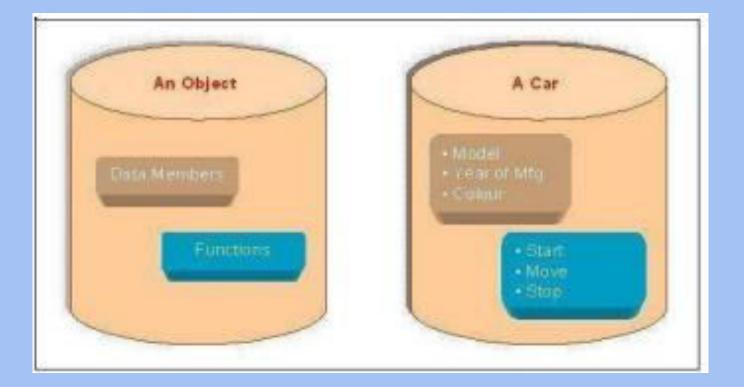
□ So object is a variable of type class.

Object is the basic unit of object-oriented programming.

In a class to access data members first memory have to be allocated.

□ No memory is allocated when a class is created.

Memory is allocated only when an object is created, i.e., when an instance of a class is created. Object is physical copy and class is logical copy.



Example Program:

1 - #include <iostream> using namespace std: 2 3 - class Student { public: 4 5 string name; 6 int age; 7 }; 8

```
8
 9 v int main() {
10
        Student student1; // Declare an object named student1
11
12
13
        student1.name = "Alice";
14
        student1.age = 20;
15
16
        // Print the student's information
17
        cout << "Hello, my name is " << student1.name << " and I am " << student1.age << " years old." << endl;
18
19
        return 0;
20
```

× Output

Hello, my name is Alice and I am 20 years old.

Process Finished.





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