What are Virtual Functions?

- Virtual function is a member function which is defined in the base class and can be overridden in derived class.
- > It is used to achieve runtime polymorphism.
- ➤ When the function is made virtual, then C++ determines at run-time which function is to be called based on the type of the object, pointed by the base class pointer.
- ➤ Thus, by making the base class pointer to point to different objects, we can execute different versions of the virtual functions.

Example:

```
#include <iostream>
using namespace std;
class Shape {
public:
    virtual void draw() {
        cout << "Drawing a shape." << endl;
    }
};
class Circle : public Shape {
public:
    void draw() {
        cout << "Drawing a circle." << endl;
    }
};</pre>
```