Base class Pointer pointing to derived class object

- Base class pointer can point on derived class object
- But only those functions which are in base class, can be called
- If derived class is having overrides functions they will not be called unless base class functions are declared as virtual
- Derived class pointer cannot point on base class object

Example 1

```
class Base
public:
    void fun1()
         cout<<"fun1 of Base "<<endl;</pre>
};
Example 2
class Derived: public Base
{
public:
    void fun2()
    {
         cout<<"fun2 of Derived"<<endl;</pre>
};
class Rectangle
public:
    void area()
    {
         cout<<"Area of Rectangle"<<endl;</pre>
};
class Cuboid: public Rectangle
{
public:
    void volume()
    {
         cout<<"Volume of Cuboid"<<endl;</pre>
};
Example 3
class BasicCar
public:
    void start()
         cout<<"Car started"<<endl;</pre>
    }
};
class AdvanceCar: public BasicCar
{
public:
    void playMusic()
```

```
{
    cout<<"Music Playing"<<endl;
};</pre>
```