```
Clear
       main.cpp
                                                               Output
æ
                                                             Calling display functions for each class:
                                                             This is class A
                                                             This is class A
Ξ
       3 using namespace std;
                                                             This is class B, derived from class A
       5 class A {
                                                             This is class A
5
                                                             This is class C, derived from class A
          public:
                                                             This is class A
               void displayA() {
韭
                   cout << "This is class A" << endl;</pre>
                                                             This is class D, derived from class A
                                                             This is class A
0
                                                             This is class B, derived from class A
                                                             This is class E, derived from class B (which in turn
0
       12 - class B : public A {
                                                                 is derived from class A)
          public:
               void displayB() {
0
                   cout << "This is class B, derived from === Code Execution Successful ===</pre>
                       class A" << endl;
JS
60
       18
       19 class C : public A {
php
          public:
               void displayC() {
                   cout << "This is class C, derived from</pre>
E
                       class A" << endl;
Ð
      26 - class D : public A {
          public:
               void displayD() {
      28
       29
                   cout << "This is class D, derived from
                      class A" << endl;
      30
      32
       33 class E : public B {
          public:
      34
              void displayE() {
      35
                   cout << "This is class E, derived from
      36
                       class B (which in turn is derived
                       from class A)" << endl;
       37
      38 };
      39
      40
          int main() {
               A objA;
               B objB;
      42
      43
               C objC;
      44
               D objD;
               E objE;
      47
               cout << "Calling display functions for each</pre>
                   class:" << endl;
      48
       49
               objA.displayA();
               objB.displayA();
               objB.displayB();
      52
      53
      54
               objC.displayA();
      55
               objC.displayC();
      56
      57
               objD.displayA();
      58
               objD.displayD();
      59
       60
               objE.displayA();
               objE.displayB();
      62
               objE.displayE();
      63
      64
      65
       67
```