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/*C++ program to demonstrate example of hierarchical inheritance
to get square and cube of a number.*/
#include <iostream>
using namespace std;
class Number
  private:
    int num;
  public:
    void getNumber(void)
       cout << "Enter an integer number: ";
       cin >> num;
    }
    //to return num
    int returnNumber(void)
    { return num; }
};
//Base Class 1, to calculate square of a number
class Square:public Number
  public:
  int getSquare(void)
    int num,sqr;
    num=returnNumber(); //get number from class Number
    sqr=num*num;
    return sqr;
  }
};
//Base Class 2, to calculate cube of a number
class Cube:public Number
  private:
  public:
  int getCube(void)
    int num, cube;
    num=returnNumber(); //get number from class Number
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cube=num*num*num;
   return cube;
 }
};
int main()
{
   Square objS;
    Cube objC;
   int sqr,cube;
   objS.getNumber();
   sqr =objS.getSquare();
   objC.getNumber();
   cube=objC.getCube();
   cout << "Cube of "<< objS.returnNumber() << " is: " << cube << endl;</pre>
    return 0;
}
```