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// File: invest.cpp
// Created by: Isaiah Green
// Created on: 9/14/2017
//compute the value of an investment after a certain number of years
#include <iostream>
#include <cmath>
using namespace std;
int main()
  int x, R, quarters;
  double Y, D, P;
  cout << "Enter initial investment (dollars): ";</pre>
  cin >> x; // initial investment=x
  cout << "Enter interest rate per year (percentage): ";</pre>
  cin >> R; // interest rate=R
  cout << "Enter number of quarters: ";</pre>
  cin >> quarters;
  //compute profit and final investment
  Y = quarters*(0.25);
                                // years=Y
  D= x*pow((1+(double(R)/100)),Y); // dollars=D
                                // profit=P
  P = D - x;
  cout << "Value of your investment after " << Y << " year(s) is "</pre>
       << D << " dollars." << endl;
  cout << "Profit from your investment after " << Y << " year(s) is "</pre>
       << P << " dollars." << endl;
 return(0);
```