## CSCI110 – Fundamentals of Computer Science MT SAC College CSCI110

Lab	) #:1	
Description:	Problem 1.6 pg 26_	
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Due Date:	6-23-2022	
Name:	Brandon Wu	· · · · · · · · · · · · · · · · · · ·
Grade:	Freshman	
Notes:	Used mac terminal	

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/*
Prolog
      Program Description: Savings after 10 years with 5% interest
  a.
  b. Author: Brandon Wu
  c. Date: 06-23-22
  d. Input variables: principal
  e. Process Flow: Operations, string manipulation
  f.
      Output variables: first year, second year, third year, fourth year,
fifth year
*/
#include <iostream>
#include <cmath>
#include <iomanip>
using namespace std;
int main()
  float principal;
  float const interest = 1.05;
  float first year;
  float second year;
  float third year;
  float fifth year;
  float fourth_year;
  cout << "Principal Amount: ";
  cin >> principal;
  first year = principal * interest;
  second year = principal * pow(interest, 2);
  third year = principal * pow(interest, 3);
  fourth year = principal * pow(interest, 4);
  fifth_year = principal * pow(interest, 5);
  cout << fixed << setprecision(2) << "Balance after first year: $" << first year <<
endl;
  cout << fixed << setprecision(2) << "Balance after second year: $" <<
second year << endl;
```

```
cout << fixed << setprecision(2) <<"Balance after third year: $" << third_year
<< endl;
   cout << fixed << setprecision(2) <<"Balance after fourth year: $" <<
fourth_year << endl;
   cout << fixed << setprecision(2) <<"Balance after fifth year: $" << fifth_year <<
endl;
   system("pause");
   return 0;
}</pre>
```

