

Future value computation

Write a C++ program to compute the future value of a sum of money invested today.

$$p_n = p_0(1 + r)^n$$

n = number of periods

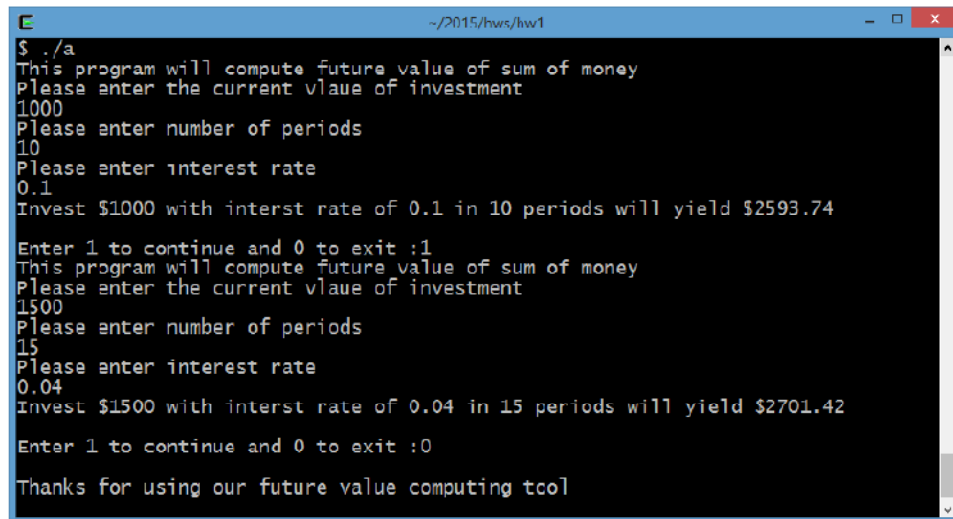
p_n = future value n periods from now

p_0 = original principal

r = interest rate per period (in decimal)

Your program will ask user to enter p_0 , n , and r and output the future value. Your program will ask user to enter 1 to continue and 0 to exit. Output a farewell message before exit the program. You don't have to error handling for this problem

Test Run results



```
$ ./a
This program will compute future value of sum of money
Please enter the current vlaue of investment
1000
Please enter number of periods
10
Please enter interest rate
0.1
Invest $1000 with interst rate of 0.1 in 10 periods will yield $2593.74

Enter 1 to continue and 0 to exit :1
This program will compute future value of sum of money
Please enter the current vlaue of investment
1500
Please enter number of periods
15
Please enter interest rate
0.04
Invest $1500 with interst rate of 0.04 in 15 periods will yield $2701.42

Enter 1 to continue and 0 to exit :0

Thanks for using our future value computing tool
```