Project:	**p08**
Assignment:	(*Financial application: compute the future investment value*) Write a method that computes future investment value at a given interest rate for a specified number of years. The future investment is determined using the formula in Programming Exercise 2.21.

Use the following method header:

public static double futureInvestmentValue(
　　　　double investmentAmount, **double** monthlyInterestRate, **int** years)

For example, **futureInvestmentValue**(**10000**, **0.05/12**, **5**) returns **12833.59**.

Write a test program that prompts the user to enter the investment amount (e.g., 1,000) and the interest rate (e.g., 9%) and prints a table that displays future value for the years from 1 t0 30, as shown in Figure 1 on the following page.

Program Files:	Project **8** consists of file **p08.zip**. File **p08.zip** is the folder containing Java project p08 created by Apache NetBeans. Attach file **p08.zip** to a note addressed to me, trturner@uco.edu, having the subject line crn-lastname-firstname-p08. For example, if you are Alan Turing and you are enrolled in CRN 25440, then the subject is **25440-Turing-Alan-p08**.

```
run:
Enter the amount to invest: $1000
Enter the Annual Percentage Rate: %9
Years              Future Value
1                       1093.81
2                       1196.41
3                       1308.65
4                       1431.41
5                       1565.68
6                       1712.55
7                       1873.20
8                       2048.92
9                       2241.12
10                      2451.36
11                      2681.31
12                      2932.84
13                      3207.96
14                      3508.89
15                      3838.04
16                      4198.08
17                      4591.89
18                      5022.64
19                      5493.80
20                      6009.15
21                      6572.85
22                      7189.43
23                      7863.85
24                      8601.53
25                      9408.41
26                     10290.99
27                     11256.35
28                     12312.28
29                     13467.25
30                     14730.58
BUILD SUCCESSFUL (total time: 8 seconds)
```

Figure 1. Sample output from project p08.