Day 3 - Problem Set

Question 1

Write a program which asks the user to enter their id. This id contains four letters and four number; e.g., abcd1234. If the numeric part of the id is even then the user is male, if it's odd then they're female. So if their id is abcd1234, then the numeric part is 1234, which is even so they are male. Display whether or not the user is male or female after entering their id.

Example Output 1 - Even Implies Male

```
Enter your id: jfoe4828
You are male
```

Example Output 2 - Odd Implies Female

```
Enter your id: oenr2973
You are female
```

Question 2

Write a program which plays the game fizzbuzz. It prints out all the numbers from 1 to 100, but if the number is a multiple of 3 it prints out fizz instead of the number, if the number is a multiple of 5 it prints out buzz instead of the number, and if it is a multiple of 3 and 5 it prints out fizzbuzz instead of the number.

Sample Of Output

```
8
fizz
buzz
11
fizz
13
14
fizzbuzz
16
```

Question 3

Write a program which asks the user to enter their bank balance, the interest rate they get on their savings, and the number of years they will keep the money in the bank. Print out how much they will have in the bank after each year. Be sure to format the output cleanly (aesthetic messages and use 2 decimal places).

Example Output

```
Enter your savings amount: 12345.67
Enter the interest rate: 5
Enter the number of years: 3
Year 1: $ 12962.95
Year 2: $ 13611.10
Year 3: $ 14291.66
```