Assignment 2

General Assignment Submission Guidelines

For every non-programming question, please submit a PDF of the answers.

For every programming question please submit *ONLY* the .java file.

For every question that is a combination of both, you may submit the answers in the form of comments inside of the .java file OR a separate PDF, whichever you prefer.

For .java files, please name the class/file accordingly, *DO NOT* make up random names. If explicitly told to name a file/class a name, name the file that name!

Name variables accordingly and not unintelligible.

Specific Assignment Submission Guidelines

For this assignment you are *NOT* to use an IDE, you *must* use a terminal to compile and execute your code.

For programming questions please showcase the steps either separately or all together.

- Compiling the program
- Executing the program

These should be done with the commands used to compile & execute java within the terminal.

You should be using iterative/conditional statements to answer all of the questions.

DO NOT use predefined methods to solve the logic of the question. Predefined methods are allowed when assisting in non-essential logic of the question.

Questions

1. Explain what conditional statements are and what they are used for. Explain what iterative statements are and why they are usd. (1pt)

2. Write a program that takes two integers, and returns the result of the first integer raised to the power of the second integer. (2pts)

3. Write a program that checks if a String is a palindrome. Research any supplemental methods to aid in this, but the logic to determine whether it is a palindrome must be implemented by your self. (2pts)

4. Implement a BankTeller program. Your program should allow a user to navigate through a few options which correspond to the users Bank account. (5pts)
    a. Have the user's initial bank account equal $1000.
    b. The program must display the following options and implement the corresponding logic.
        i.   Withdraw
        ii. Deposit
        iii. Summary
        iv. Exit
    c. Have the user Withdraw $300
    d. Have the user Deposit $150
    e. Have the user request a Summary of their bank account
    f. Have the user Exit the program