Week 4 Lab book

1. Write a program that asks the user to provide a single character from the alphabet. The program should then print Vowel or Consonant. The user can enter both lowercase and uppercase letters. If the user didn’t enter a valid letter, an error message should be displayed.
2. Design a program to input three positive integers representing day, month and year, and output ‘yes’ or ‘no’ according to whether they form a legitimate date. Make sure you correctly handle leap years.

For Example:

* 1. Input 🡺 day = 10

month = 5

year = 1912

Output 🡺 yes

* 1. Input 🡺 day = 30

month = 2

year = 1958

Output 🡺 no

1. Write a program that prompts the user to enter a year and displays the animal for the year. You can use the following formula to determine the animal. Use Switch statement.



1. Write a program that tests user’s addition and subtraction skills. The program generates 2 random numbers in the range between 5 and 50. You can use Math.random() or the Random class. Latter has much more functionality, but you will need to create its instance before you can use it (just like Scanner). The program also randomly chooses plus or minus. The program completes the computation, hides one of the numbers and asks the user to enter this number. For example: 25 - ? = 7. The user is told whether their answer is right or wrong. If they are wrong, the correct answer is displayed too.
2. Write a program that asks the user to enter a number between 0 and 9999. The program then should display the number in such a way that it always prints 4 digits. So if the number has less digits, zeroes are added in the front. For example, if user entered 25 it should print 0025. The program should also print how many digits the original number had.