Assignment Day 1

1. Write a program that determines whether a given number is positive or negative.

Write a program that checks if a number is even or odd.

Write a program to determine the greater of two numbers.

- 4. Suppose we need to assign different grades to students based on their
- If a student scores above 91-100, assign grade A.
- If a student scores above 81-90, assign grade B.
- If a student scores above 71-80, assign grade C.
- If a student scores above 61-60, assign grade C.
- Other wise fail
- 5. Write a program that calculates the ticket price based on age with the following conditions: age below 12 pay a ticket price of 5, age below 18 pay a ticket price of 10, age below 60 pay a ticket price of 20, age over 60 play a ticket price of 15.

Write a program that determines if a year is a leap year.

Write a program that calculates a discount based on the purchase amount. Prices equal or over 100 discount have a discount of 20. Prices equal or over 50 have a discount of 10. Otherwise discount is 0

- 8. Write a program that greets the user based on the time of day. Display good morning, good afternoon or good evening based on the time of day when you run the code.
- 9. Write a program that calculates the Body Mass Index (BMI) and categorizes it. The formula for BMI is: weight / (height * height).
- 10. Write a simple number guessing game. Provide a secret number and a guess. Based on those numbers give players clues if their guess is higher, lower or correct.