**Name: Session:**

**Programming I**

**Lab Exercise 5 September 2023**

When you have completed your programs, submit the source code.

1. Write a short program to print three lines: your name, your birth date, and your favorite color. The program should ask the user to input their name, birth date and favorite color. You should treat each of these as a string using the input function to get user input.

The output should look something like this:

My name is John Smith

I was born on May 7, 1992

My favorite color is Green

Save the program and run it. If the program doesn’t do what you expect, or you get any error messages, fix it and make it work.

1. Write a program that does the following:
2. Create a variable and assign a number to it (any number you like). Then display your variable using the print function.
3. Modify your variable, either by replacing the old value with a new value, or by adding something to the old value. Display the new value using the print function.
4. Create another variable and assign a string (some text) to it. Then display it using the print function.
5. Get Python to calculate the number of minutes in a week. But this time, use variables. Make a variable and assign values for daysPerWeek, hoursPerDay, and minutesPerHour, and then multiply them together.
6. Write a program that will ask the user the number of sides to a regular polygon and then draws the polygon. Be sure to make the turtle invisible.
7. Write a program to determine how many days until the end of school year. To help you out, here is a program that I wrote to tell me how many days until summer vacation.

from datetime import date

sv = input("What day do you start summer vacation in the form of mm/dd/yyyy? ")

start = sv.split('/')

today = date.today()

endOfSchool = date(today.year, int(start[0]), int(start[1]))

if endOfSchool < today:

endOfSchool = endOfSchool.replace(year = today.year + 1)

timeToVacation = abs(endOfSchool - today)

print( 'There are', timeToVacation.days, 'days until summer vacation')