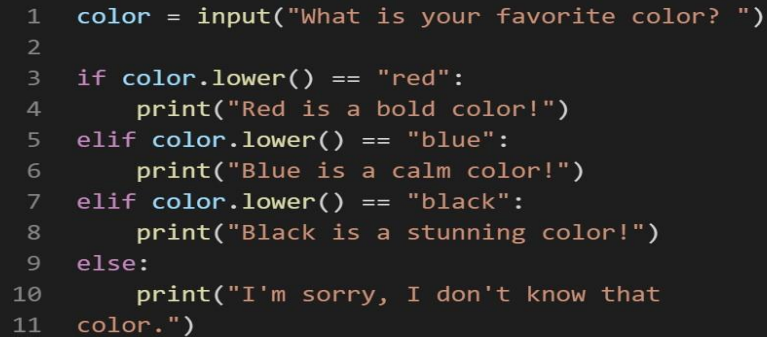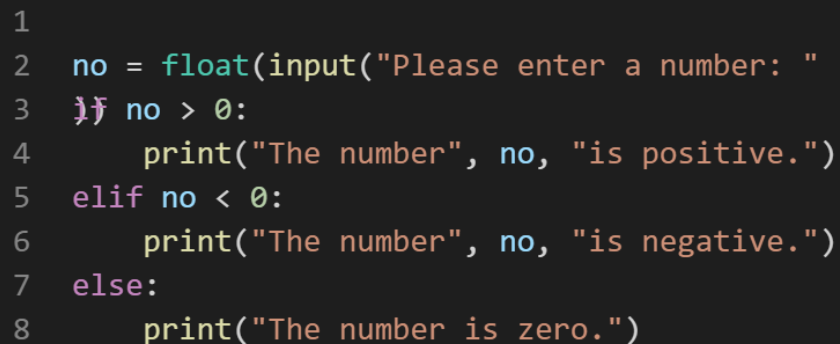# Day 4 Assignments:

Q.1 Write a program that asks the user for their favorite color and prints out a message depending on the color they choose. For example: "Red is a bold color!" or "Blue is a calm color!". Use at least 3 different colors in your program.

```python
1   color = input("What is your favorite color? ")
2
3   if color.lower() == "red":
4       print("Red is a bold color!")
5   elif color.lower() == "blue":
6       print("Blue is a calm color!")
7   elif color.lower() == "black":
8       print("Black is a stunning color!")
9   else:
10      print("I'm sorry, I don't know that
11  color.")
```

Q.2 Write a program that asks the user for a number and prints out whether the number is positive, negative, or zero.

```python
1
2   no = float(input("Please enter a number: "
3   if no > 0:
4       print("The number", no, "is positive.")
5   elif no < 0:
6       print("The number", no, "is negative.")
7   else:
8       print("The number is zero.")
```

Q.3 Write a program that asks the user for a letter grade (A, B, C, D, or F) and prints out the corresponding GPA. For example, an A should print out as 4.0, a B as 3.0, and so on.

```python
1   letter_grade = input("Enter your letter grade (A, B, C, D, or F): ")
2
3   if letter_grade == "A":
4       print("Your GPA is 4.0")
5   elif letter_grade == "B":
6       print("Your GPA is 3.0")
7   elif letter_grade == "C":
8       print("Your GPA is 2.0")
9   elif letter_grade == "D":
10      print("Your GPA is 1.0")
11  elif letter_grade == "F":
12      print("Your GPA is 0.0")
13  else:
14      print("Invalid input. Please enter A, B, C, D, or F.")
```

Q.4 Ask 4 ages from user (age1, age2, age3, age4). Print out which age is the youngest.

```python
1   age1=int(input("Enter the age of person 1 in numbers- "))
2   age2=int(input("Enter the age of person 2 in numbers- "))
3   age3=int(input("Enter the age of person 3 in numbers- "))
4   age4=int(input("Enter the age of person 4 in numbers- "))
5
6   if age1==age2 or age1==age3 or age1==age4 or age2==age3 or age2==age4 or age3==age4
7   :       print("Please enter seperate age values - DO NOT REPEAT ")
8   elif age1<age2 and age1<age3 and age1<age4:
9           print("Person 1 is youngest")
10  elif age2<age1 and age2<age3 and age2<age4:
11          print("Person 2 is youngest")
12  elif age3<age1 and age3<age2 and age3<age4:
13          print("Person 3 is youngest")
14  elif age4<age1 and age4<age2 and age4<age3:
15          print("Person 4 is youngest")
```

Q.5 Python Program to Generate a Random Number (take help of google)

```python
1   import random
2
3   random_no = random.randint(1, 10)
4
5   print("Random number:", random_no)
```