

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.

```
In [7]: color = input("what is your favorite color? ")

if color.lower() == "red":
    print("Red is a bold color!")
elif color.lower() == "blue":
    print("Blue is a calm color!")
elif color.lower() == "green":
    print("Green is a refreshing color!")
else:
    print("I'm sorry, I don't know that color.")
```

What is your favorite color? Blue
Blue is a calm color!

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

```
In [7]: num = int(input())
if num > 0:
    print("positive")
elif num < 0:
    print("negative")
else:
    print("zero")
```

0
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.

In []:

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

```
In [12]: age1 = int(input())
age2 = int(input())
age3 = int(input())
age4 = int(input())
if age1 <= age2 and age1 <= age3 and age1 <= age4:
    print(f"{age1} is youngest")
elif age2 <= age1 and age2 <= age3 and age2 <= age4:
    print(f"{age2} is youngest")
elif age3 <= age1 and age3 <= age2 and age3 <= age4:
    print(f"{age3} is youngest")
else:
    print(f"{age4} is youngest")
```

12
22
34
6
6 is youngest

See my first program to generate a random number (also help of google)

```
In [30]: import random
random_number = random.randint(1, 100)

print("Random number between 1 and 100:", random_number)
```

Random number between 1 and 100: 53

In []: