DAY-4 ASSIGNMENT

1.

```python
# Taking input from the user
favorite_color = input("What is your favorite color? ").lower()

# Checking the favorite color
if favorite_color == "red":
    print("Red is a bold color!")
elif favorite_color == "blue":
    print("Blue is a calm color!")
elif favorite_color == "green":
    print("Green is a positive color!")
else:
    print("I'm not familiar with this color!")
```

```
PS D:\CODINGWISE> & C:/Users/EKANSH/AppData/Local/Programs/Python/Python311/python.exe "d:/CODINGWISE/Day_4 Q1.py"
What is your favorite color? red
Red is a bold color!
PS D:\CODINGWISE> & C:/Users/EKANSH/AppData/Local/Programs/Python/Python311/python.exe "d:/CODINGWISE/Day_4 Q1.py"
What is your favorite color? black
I'm not familiar with this color!
PS D:\CODINGWISE>
```

2.

```python
# Taking input from the user
num = float(input("Enter a number= "))

# Checking the number
if num > 0:
    print("The number is positive.")
elif num < 0:
    print("The number is negative.")
else:
    print("The number is zero.")
```

```
PS D:\CODINGWISE> & C:/Users/EKANSH/AppData/Local/Programs/Python/Python311/python.exe "d:/CODINGWISE/Day_4 Q2.py"
Enter a number= 17
The number is positive.
PS D:\CODINGWISE> & C:/Users/EKANSH/AppData/Local/Programs/Python/Python311/python.exe "d:/CODINGWISE/Day_4 Q2.py"
Enter a number= -9
The number is negative.
PS D:\CODINGWISE> & C:/Users/EKANSH/AppData/Local/Programs/Python/Python311/python.exe "d:/CODINGWISE/Day_4 Q2.py"
Enter a number= 0
The number is zero.
PS D:\CODINGWISE>
```

3.

```python
# Taking input from the user
letter_grade = input("Enter your letter grade (A, B, C, D, or F): ").upper()

# Corresponding GPAs
if letter_grade == "A":
    gpa = 4.0
elif letter_grade == "B":
    gpa = 3.0
elif letter_grade == "C":
    gpa = 2.0
elif letter_grade == "D":
    gpa = 1.0
elif letter_grade == "F":
    gpa = 0.0
else:
    print("Invalid Grade Entered!")

# Displaying the corresponding GPA
print(f"The corresponding GPA for {letter_grade} is {gpa}.")
```

```
PS D:\CODINGWISE> & C:/Users/EKANSH/AppData/Local/Programs/Python/Python311/python.exe "d:/CODINGWISE/Day_4 Q3.py"
Enter your letter grade (A, B, C, D, or F): D
The corresponding GPA for D is 1.0.
PS D:\CODINGWISE> & C:/Users/EKANSH/AppData/Local/Programs/Python/Python311/python.exe "d:/CODINGWISE/Day_4 Q3.py"
Enter your letter grade (A, B, C, D, or F): A
The corresponding GPA for A is 4.0.
PS D:\CODINGWISE>
```

4.

```python
# Taking input from the user
age1 = int(input("Enter the first age = "))
age2 = int(input("Enter the second age = "))
age3 = int(input("Enter the third age = "))
age4 = int(input("Enter the fourth age = "))

# Finding the Youngest Age
youngest_age = min(age1, age2, age3, age4)

print(f"The youngest age is: {youngest_age}")
```

```
PS D:\CODINGWISE> & C:/Users/EKANSH/AppData/Local/Programs/Python/Python311/python.exe "d:/CODINGWISE/Day_4 Q4.py"
Enter the first age = 25
Enter the second age = 17
Enter the third age = 65
Enter the fourth age = 38
The youngest age is: 17
PS D:\CODINGWISE>
```

5.

```python
# Importing Random Module
import random

# Generating a random number between 1 and 100
random_number= random.randint(1,100)

print(f"The random number is {random_number}")
```

PS D:\CODINGWISE> & C:/Users/EKANSH/AppData/Local/Programs/Python/Python311/python.exe "d:/CODINGWISE/Day_4 Q5.py"
The random number is 87
PS D:\CODINGWISE> & C:/Users/EKANSH/AppData/Local/Programs/Python/Python311/python.exe "d:/CODINGWISE/Day_4 Q5.py"
The random number is 68
PS D:\CODINGWISE> & C:/Users/EKANSH/AppData/Local/Programs/Python/Python311/python.exe "d:/CODINGWISE/Day_4 Q5.py"
The random number is 36
PS D:\CODINGWISE> & C:/Users/EKANSH/AppData/Local/Programs/Python/Python311/python.exe "d:/CODINGWISE/Day_4 Q5.py"
The random number is 57