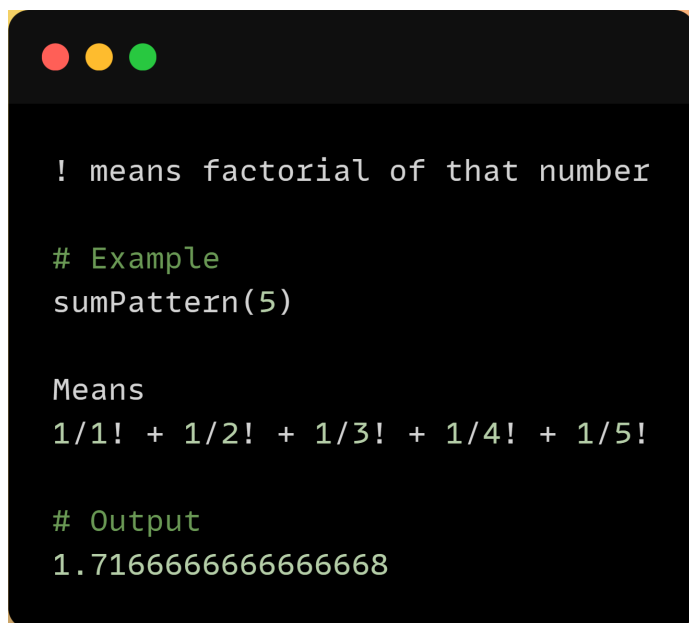


WEEK 2 - CONTEST

NOTE:

- No need to submit anywhere, just keep track of all the PDF you made in a specific folder.
- Compare your solution with the solution I'll provide, in case of doubts, kindly reach out to me.
- You may get assignment solution in format of PDF or VIDEO solution, depending on the difficulty level.

Q1. Make a function named **sumPattern** that takes an integer **n** as an argument from the user. And then calculate the sum of the following pattern.



```
! means factorial of that number

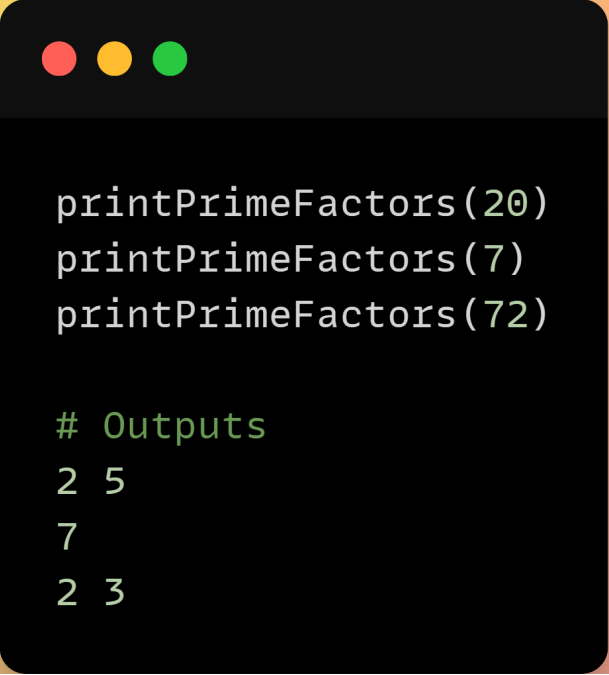
# Example
sumPattern(5)

Means
1/1! + 1/2! + 1/3! + 1/4! + 1/5!

# Output
1.7166666666666668
```

Q2. Create a function named as **checkPrime** that takes an integer as an argument. Print **YES** if the number passed is a prime number else print **NO**.

Q3. Create a function named as **printPrimeFactors** that takes an integer **n** as a argument and print all the prime factors of that number.



```
printPrimeFactors(20)
printPrimeFactors(7)
printPrimeFactors(72)
```

```
# Outputs
```

```
2 5
```

```
7
```

```
2 3
```