

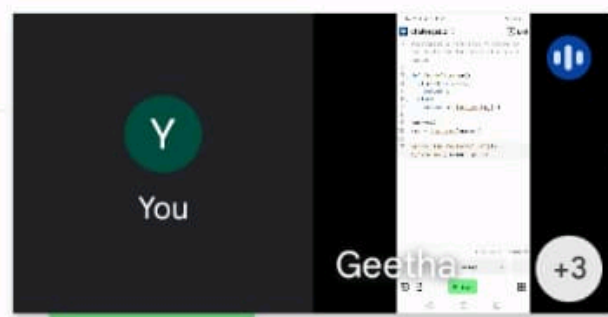


Challenge1.1 :



Exit

```
1 #implement a recursive function to
  calculate the factorial of a given
  number
2
3 def fact_rec(n):
4     if n==0 or n==1:
5         return 1
6     else:
7         return n*(fact_rec(n-1))
8
9 number=2
10 res = fact_rec(number)
11
12 print("the factorial of{}is
    {}".format(number,res))
```





the factorial of 2 is 2



Run





Challenge 1.2 :



Exit

```
1 #Leap year
2
3 def isLeapYear(year):
4     if (year % 4==0 and year % 100 !=0) or
       year % 400==0:
5         return True
6     else:
7         return False
8
9 year= int(input("enter a year."))
10 if isLeapYear(year):
11     print("{} is a leap year.".format
       (year))
12 else:
13     print('{} is not a leap
       year.'.format(year))
14
```

Ln 1, Col 1 History



Run





Challenge 1.2



Exit

```
enter a year.2023  
2023 is not a leap year.
```



Run

