



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))
```

Ln 1, Col 1 History



main.py



Run





Challenge1.1 :

 Exit

```
the factorial of 2 is 2
```



>_ Console

 Run

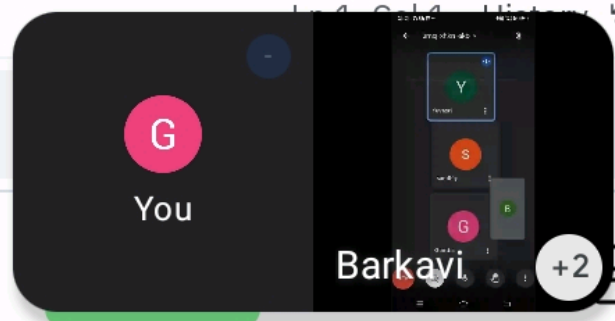


Challenge1.2 :



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
```

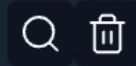




Challenge1.2 :

 Exit

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



>_ Console

 Run