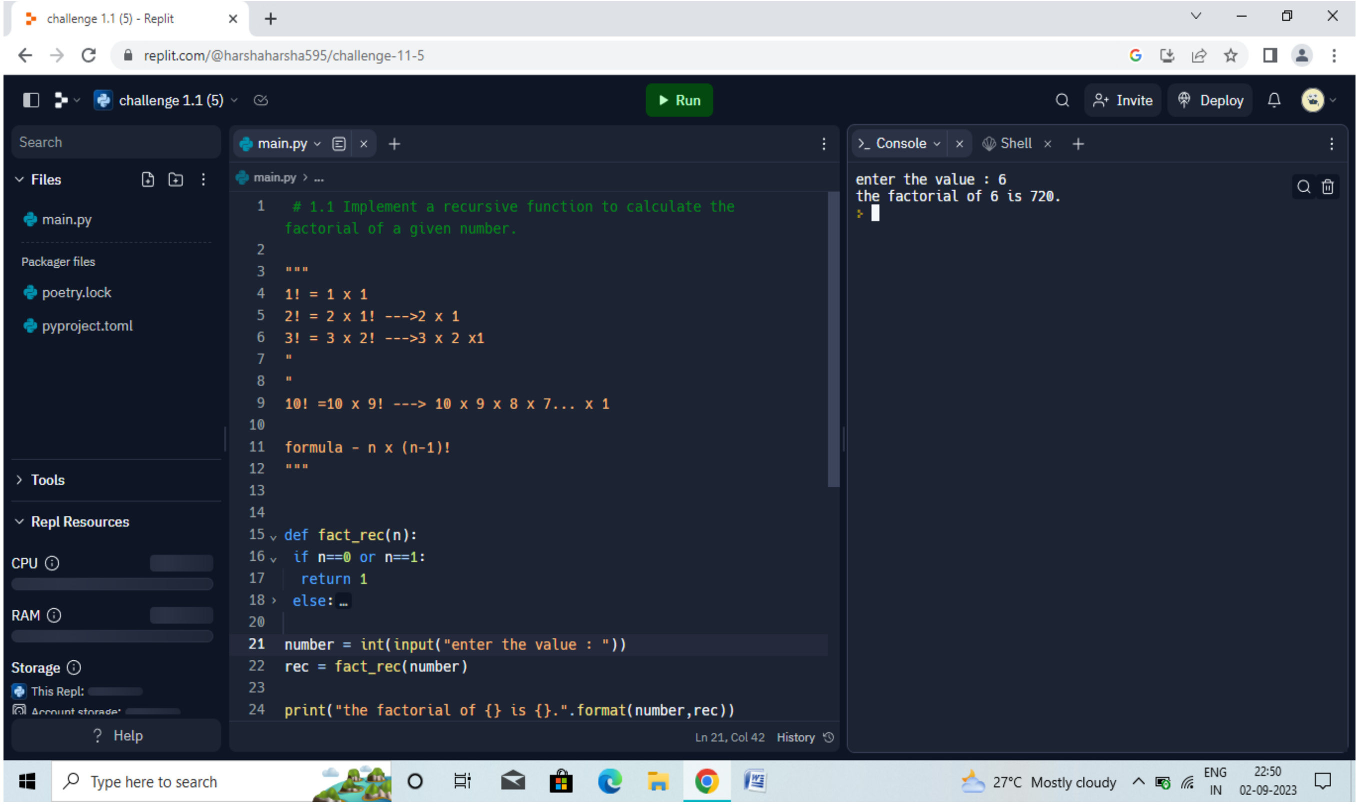
challenge 1.1 (5) - Replit
replit.com/@harshaharsha595/challenge-11-5
challenge 1.1 (5)
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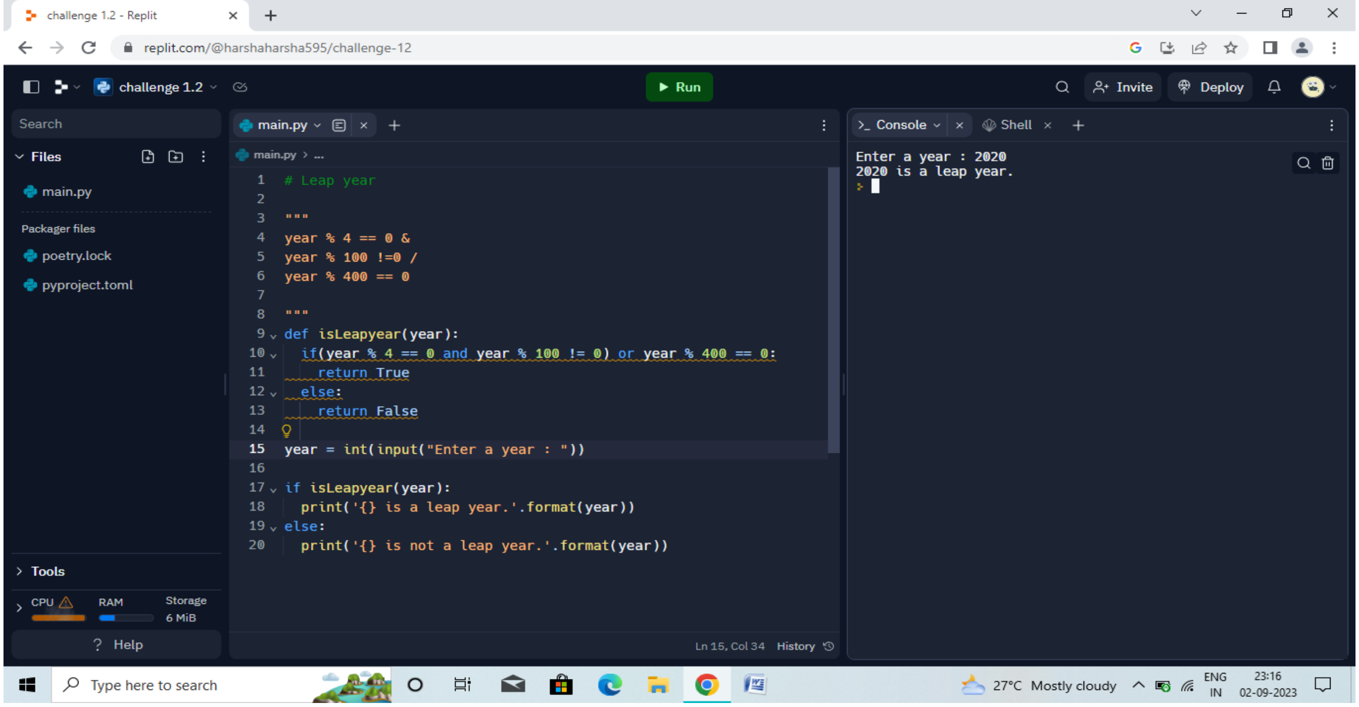
```python
 # 1.1 Implement a recursive function to calculate the factorial of a given number.

"""
1! = 1 x 1
2! = 2 x 1! --->2 x 1
3! = 3 x 2! --->3 x 2 x1
"
"
10! =10 x 9! ---> 10 x 9 x 8 x 7... x 1

formula - n x (n-1)!
"""


def fact_rec(n):
 if n==0 or n==1:
  return 1
 else:…

number = int(input("enter the value : "))
rec = fact_rec(number)

print("the factorial of {} is {}.".format(number,rec))
```

```
enter the value : 6
the factorial of 6 is 720.
>
```


challenge 1.2 - Replit
replit.com/@harshaharsha595/challenge-12
challenge 1.2
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02-09-2023

```python
# Leap year

"""
year % 4 == 0 &
year % 100 !=0 /
year % 400 == 0

"""
def isLeapyear(year):
  if(year % 4 == 0 and year % 100 != 0) or year % 400 == 0:
    return True
  else:
    return False

year = int(input("Enter a year : "))

if isLeapyear(year):
  print('{} is a leap year.'.format(year))
else:
  print('{} is not a leap year.'.format(year))
```

```
Enter a year : 2020
2020 is a leap year.
>
```

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