Python1.1 ⋮ Exit

```
1  #1.1 Implement a recursive function
   to calculate the factorial of a
   given number.
2
3
4  def fact_rec(n):
5      if n == 0 or n == 1:
6          return 1
7      else:
8          return n * fact_rec(n - 1)
9
10
11 number = int(input("Enter the
   value:"))
12 res = fact_rec(number)
13
14 print("The factorial of {} is
   {}".format(number, res))
15
```

Ln 1, Col 1 • Spaces: 2 History

main.py ⋮

Run

Python1.1

Exit

Run

9s on 22:57:02, 10/18

```
Enter the value:8
The factorial of 8 is 40320
```

Console

Run

Python1. 2 ⋮ Exit

```
1  # Leap year
2  def isleapyear(year):
3    if (year % 4 == 0 and year % 100
   != 0) or year % 400 == 0:
4      return True
5    else:
6      return False
7
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 • Spaces: 2 History

main.py ⋮

Run

Python1. 2

Exit

Run 12s on 22:57:54, 10/18 ✓

```
Enter a year : 2004
2004 is a leap year.
```

Run 6s on 22:58:12, 10/18 ✓

```
Enter a year : 2005
2005 is not a leap year.
```

Console

Run