

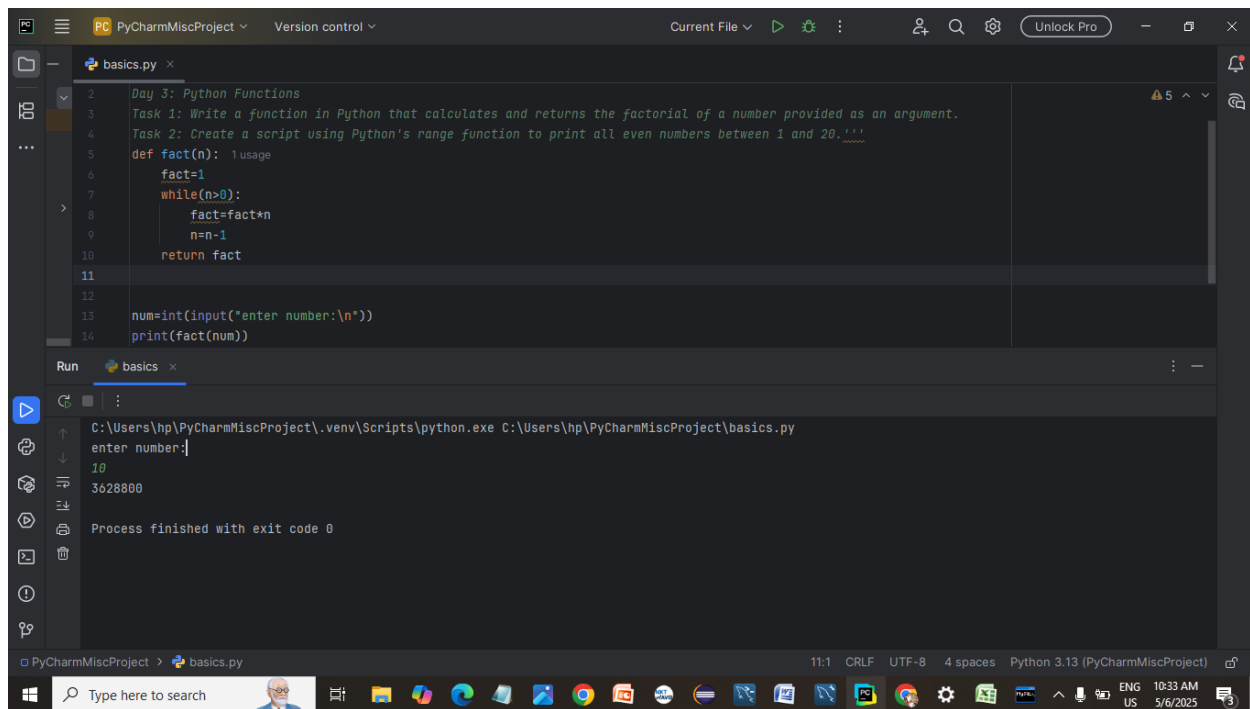
# Python Day3 Assignments

**Assignment 1 )** Task 1: Write a function in Python that calculates and returns the factorial of a number provided as an argument.

```
def fact(n):
    fact=1
    while(n>0):
        fact=fact*n
        n=n-1
    return fact

num=int(input("enter number:\n"))
print(fact(num))
```

## Output )



The screenshot shows the PyCharm IDE interface. The top toolbar includes icons for file operations, running, and debugging. The main editor window displays the Python code for calculating the factorial. Below the editor, the 'Run' console shows the execution output. The code defines a function 'fact' that calculates the factorial of a number 'n' using a while loop. It then prompts the user to enter a number and prints the result. The output shows that for the input '10', the factorial is '3628800'. The status bar at the bottom indicates the file encoding (UTF-8), indentation (4 spaces), and the Python version (3.13).

```
def fact(n):
    fact=1
    while(n>0):
        fact=fact*n
        n=n-1
    return fact

num=int(input("enter number:\n"))
print(fact(num))
```

Run basics

C:\Users\hp\PyCharmMiscProject\.venv\Scripts\python.exe C:\Users\hp\PyCharmMiscProject\basics.py

enter number:10

3628800

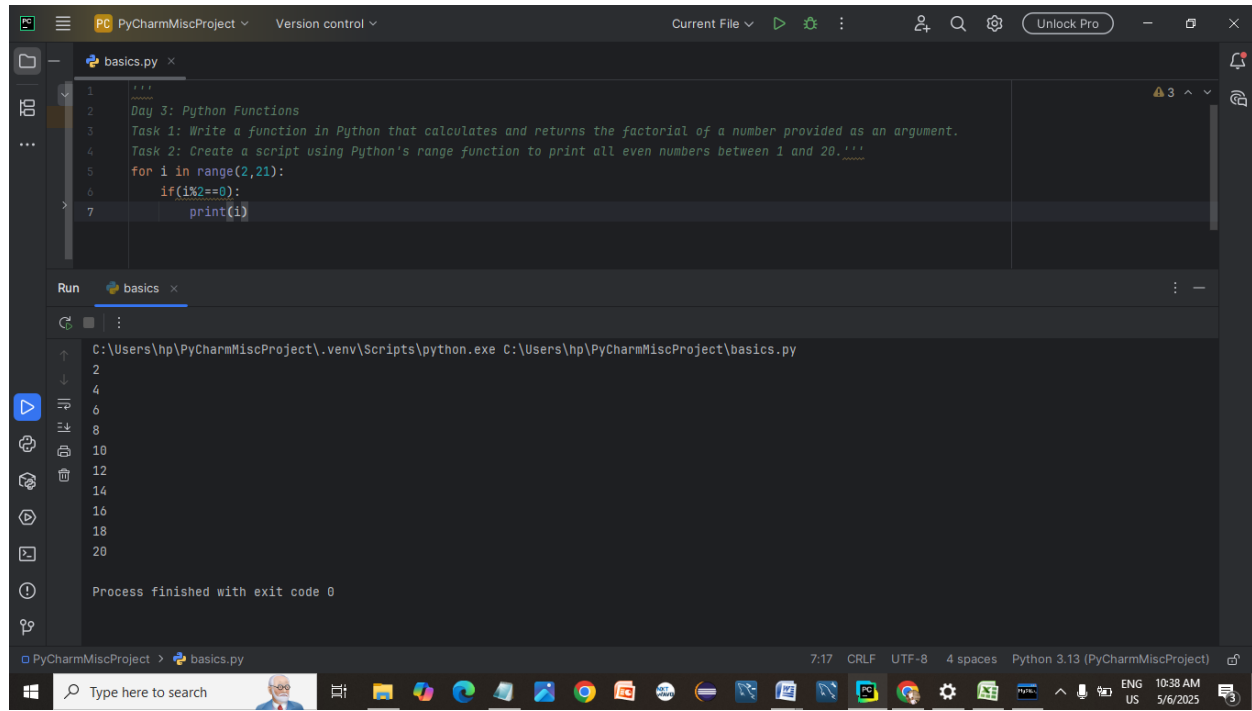
Process finished with exit code 0

PyCharmMiscProject > basics.py 11:1 CRLF UTF-8 4 spaces Python 3.13 (PyCharmMiscProject)

**Assignment 2)** Create a script using Python's range function to print all even numbers between 1 and 20.

```
for i in range(2,21):  
    if(i%2==0):  
        print(i)
```

## Output )



The screenshot displays the PyCharm IDE interface. The top toolbar includes icons for file operations, a search icon, and a 'Unlock Pro' button. The main editor window, titled 'basics.py', contains the following Python code:

```
1  """  
2  Day 3: Python Functions  
3  Task 1: Write a function in Python that calculates and returns the factorial of a number provided as an argument.  
4  Task 2: Create a script using Python's range function to print all even numbers between 1 and 20."""  
5  for i in range(2,21):  
6      if(i%2==0):  
7          print(i)
```

Below the editor is the 'Run' console, which shows the command executed: `C:\Users\hp\PyCharmMiscProject\.venv\Scripts\python.exe C:\Users\hp\PyCharmMiscProject\basics.py`. The output of the script is displayed as a list of even numbers from 2 to 20, with line numbers 2, 4, 6, 8, 10, 12, 14, 16, 18, and 20 on the left. The console concludes with the message 'Process finished with exit code 0'.

The bottom status bar indicates the project is 'PyCharmMiscProject', the file is 'basics.py', and the Python version is 'Python 3.13 (PyCharmMiscProject)'. The system tray at the very bottom shows the time as 7:17, date as 5/6/2025, and language as ENG US.