PythonProject C:\Users\RAHUL\PycharmProjects\Pythor
> .venv library root
arithmetic.py
arithmetic operation.py
credit.py
evenandodd.py
fornwhile.py
html.py
largest number.py

```python
a = 10
b = 4
print("addition:",a+b)
print("subtraction:",a-b)
print("multiplication:",a*b)
print("division:",a/b)
print("floor division:",a//b)
print("exponentiation:",a**b)
print("modulus:",a%b)
```

Run   arithmetic ✕

```
C:\Users\RAHUL\PycharmProjects\PythonProject\.venv\Scripts\python.exe C:\Users\RAHUL\PycharmProjects\PythonProject\arithmetic.py
addition: 14
subtraction: 6
multiplication: 40
division: 2.5
floor division: 2
exponentiation: 10000
modulus: 2
```
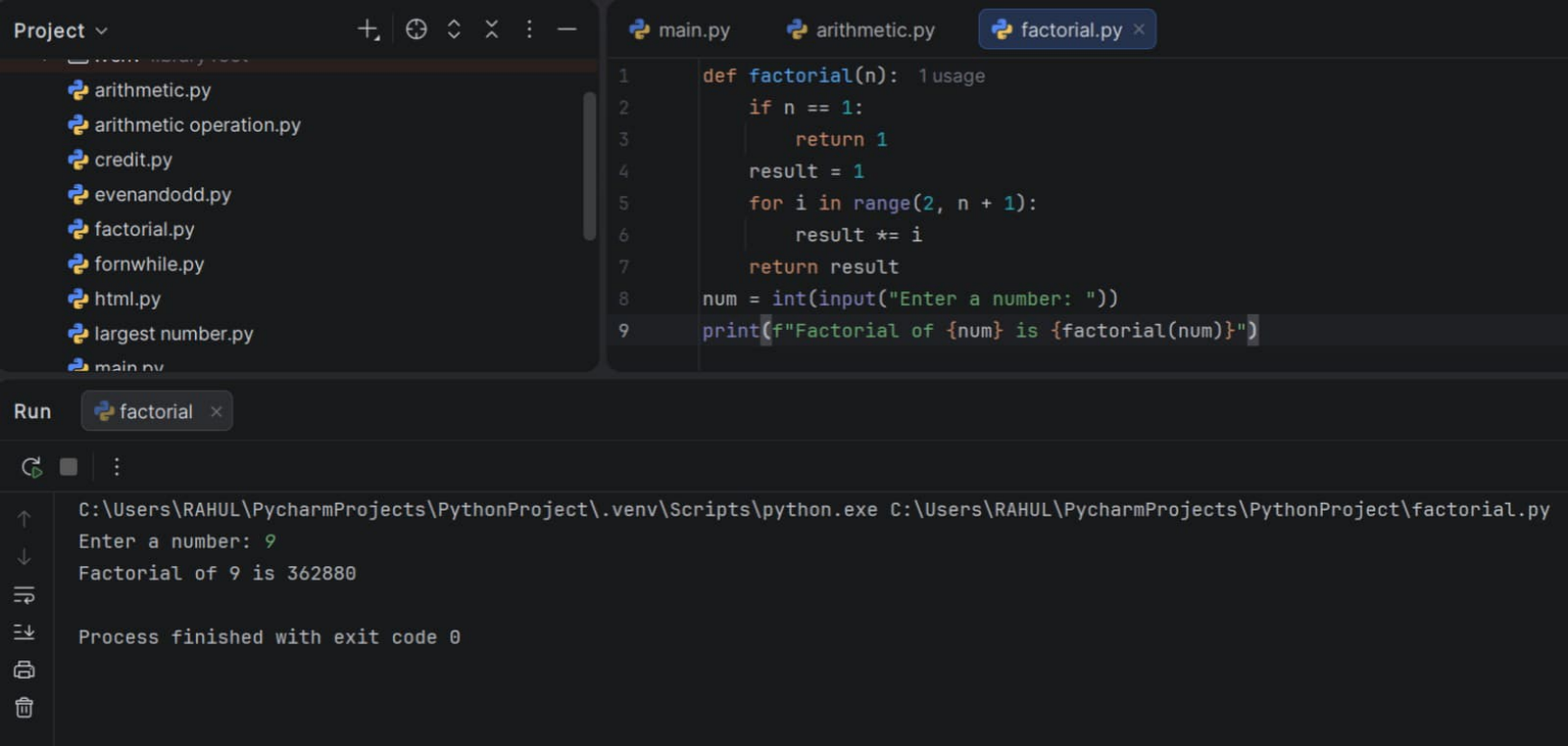
Project files:
- arithmetic.py
- arithmetic operation.py
- credit.py
- evenandodd.py
- factorial.py
- fornwhile.py
- html.py
- largest number.py
- main.py

```python
def factorial(n):  1 usage
    if n == 1:
        return 1
    result = 1
    for i in range(2, n + 1):
        result *= i
    return result
num = int(input("Enter a number: "))
print(f"Factorial of {num} is {factorial(num)}")
```

Run factorial ✕

```
C:\Users\RAHUL\PycharmProjects\PythonProject\.venv\Scripts\python.exe C:\Users\RAHUL\PycharmProjects\PythonProject\factorial.py
Enter a number: 9
Factorial of 9 is 362880

Process finished with exit code 0
```

```python
n = int(input("enter a number: "))
if n > 1:
    is_prime = True
    for i in range(2,n):
        if n%i==0:
            is_prime = False
            break
    if is_prime:
        print(n,"is a prime number.")
    else:
        print(n,"is not a prime number.")
else:
    print(n,"is not a prime number.")
```

Run

```
C:\Users\RAHUL\PycharmProjects\PythonProject\.venv\Scripts\python.exe C:\Users\RAHUL\PycharmProjects\PythonProject\prime.py
enter a number: 6
6 is not a prime number.
```