

Project

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main.py

arithmetic.py

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

```
1 a = 10
2 b = 4
3 print("addition:",a+b)
4 print("subtraction:",a-b)
5 print("multiplication:",a*b)
6 print("division:",a/b)
7 print("floor division:",a//b)
8 print("exponentiation:",a**b)
9 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

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main.py

arithmetic.py

factorial.py

- arithmetic.py
- arithmetic operation.py
- credit.py
- evenandodd.py
- factorial.py
- fornwhile.py
- html.py
- largest number.py
- main.py

```
1 def factorial(n): 1 usage
2     if n == 1:
3         return 1
4     result = 1
5     for i in range(2, n + 1):
6         result *= i
7     return result
8 num = int(input("Enter a number: "))
9 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
```

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factorial.py  
fornwhile.py  
html.py  
largest number.py  
main.py  
multiplication.py  
passfail.py  
personal details.py  
**prime.py**  
star.py

> External Libraries  
Scratches and Consoles

main.py prime.py

```
1 n = int(input("enter a number: "))
2 if n > 1:
3     is_prime = True
4     for i in range(2,n):
5         if n%i==0:
6             is_prime = False
7             break
8     if is_prime:
9         print(n,"is a prime number.")
10    else:
11        print(n,"is not a prime number.")
12    else:
13        print(n,"is not a prime number.")
```

Run prime



```
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.
```