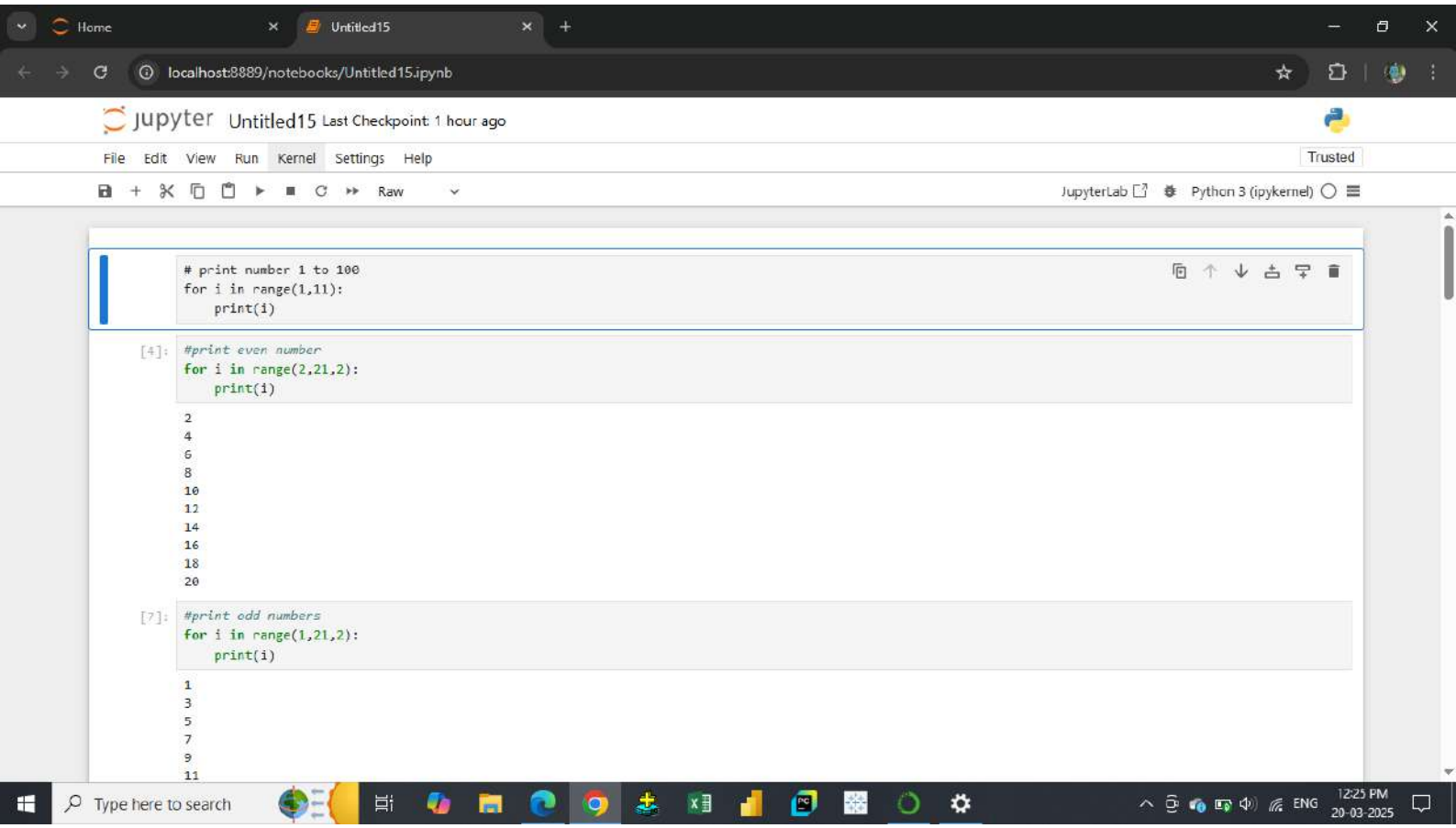
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Raw
JupyterLab
Python 3 (ipykernel)
# print number 1 to 100
for i in range(1,11):
print(i)
[4]:
#print even number
for i in range(2,21,2):
print(i)
2
4
6
8
10
12
14
16
18
20
[7]:
#print odd numbers
for i in range(1,21,2):
print(i)
1
3
5
7
9
11
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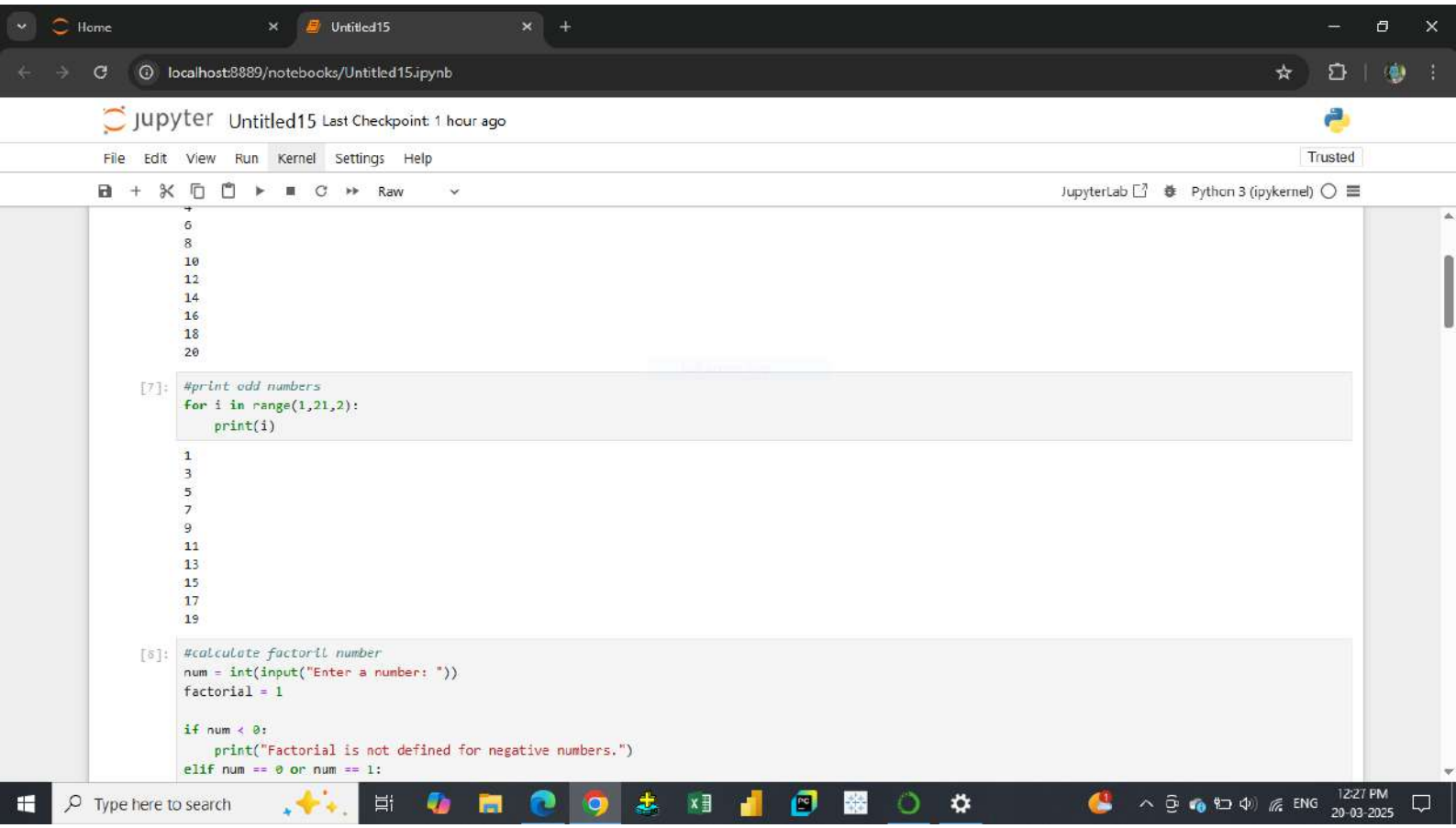
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Raw
JupyterLab
Python 3 (ipykernel)
4
6
8
10
12
14
16
18
20
[7]:
#print odd numbers
for i in range(1,21,2):
print(i)
1
3
5
7
9
11
13
15
17
19
[8]:
#calculate factoril number
num = int(input("Enter a number: "))
factorial = 1
if num < 0:
print("Factorial is not defined for negative numbers.")
elif num == 0 or num == 1:
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Raw

JupyterLab | Python 3 (ipykernel)

```
elif num == 0 or num == 1:
    print(f"The factorial of {num} is 1.")
else:
    for i in range(1, num + 1):
        factorial *= i
    print(f"The factorial of {num} is {factorial}.")
```

```
Enter a number:  2
The factorial of 2 is 2.
```

[10]:
```
#sum of number using for loop
sumnumber=0
for i in range(1,101):
    sumnumber+=i
print("Sum of number from 1 to 100:",sumnumber)
```

```
Sum of number from 1 to 100: 5050
```

[11]:
```
#average number in a list
num=[10,20,30,40,50]
sumnum=sum(num)
countnum=len(num)
avg=sumnum/countnum
print("Average number in the list :",avg)
```

```
Average number in the list : 30.0
```

[13]:
```
#draw patterns using nested loops

#triangle
```

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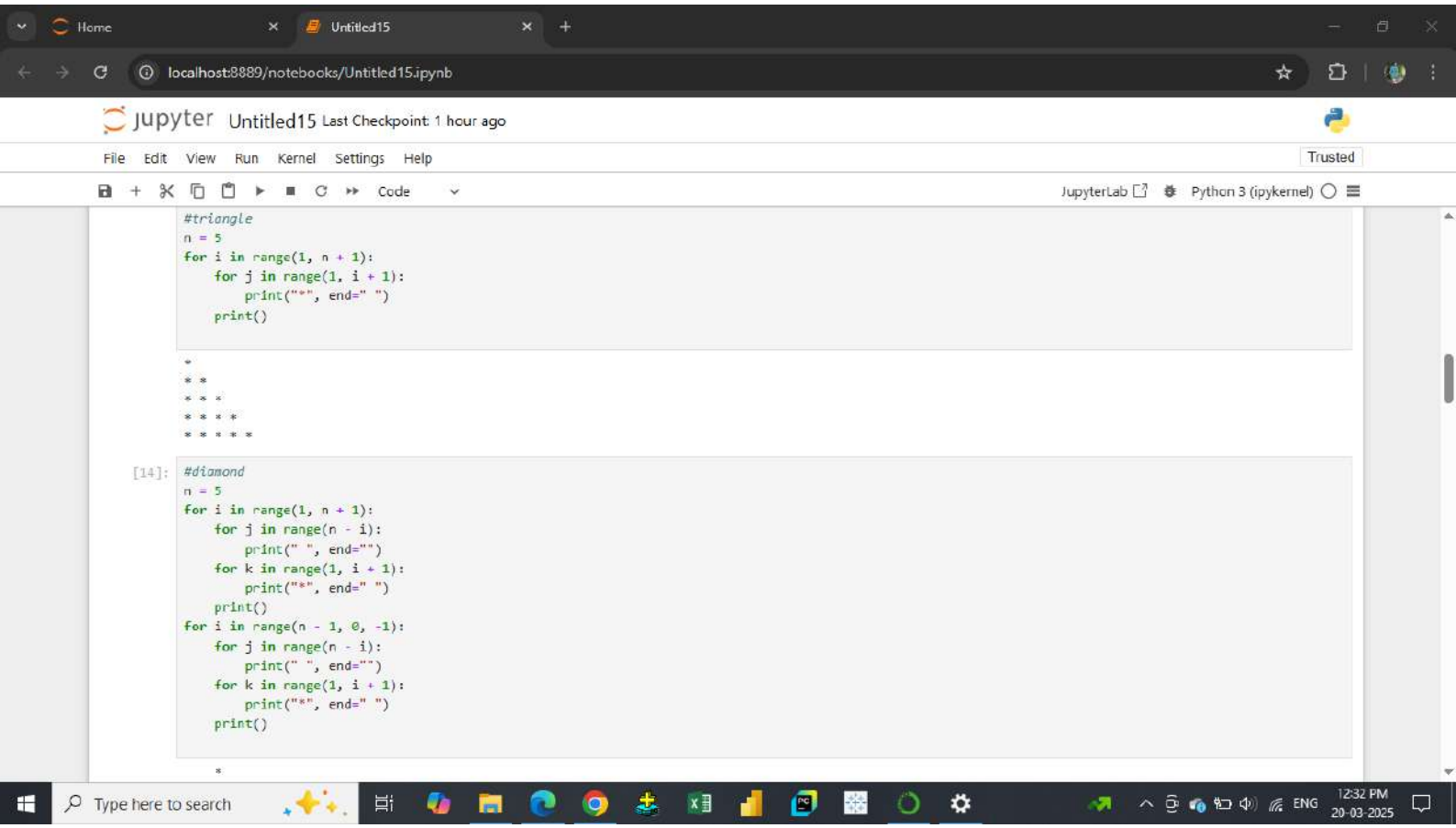
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Code
JupyterLab
Python 3 (ipykernel)
#triangle
n = 5
for i in range(1, n + 1):
for j in range(1, i + 1):
print("*", end=" ")
print()
*
* *
* * *
* * * *
* * * * *
[14]:
#diamond
n = 5
for i in range(1, n + 1):
for j in range(n - i):
print(" ", end="")
for k in range(1, i + 1):
print("*", end=" ")
print()
for i in range(n - 1, 0, -1):
for j in range(n - i):
print(" ", end="")
for k in range(1, i + 1):
print("*", end=" ")
print()
*
Type here to search
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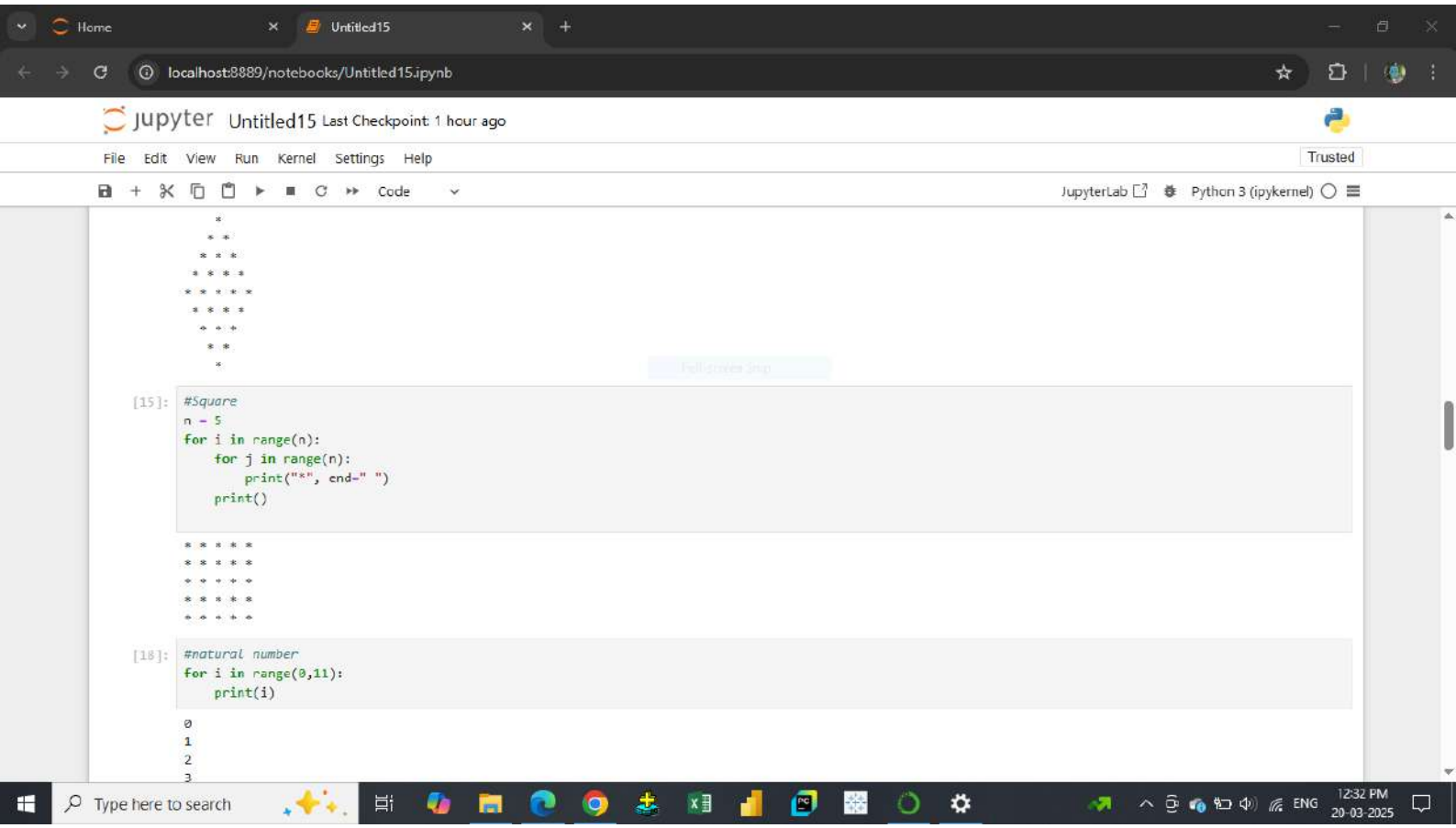
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Code
JupyterLab
Python 3 (ipykernel)
*
* *
* * *
* * * *
* * * * *
* * * *
* * *
* *
*
[15]:
#Square
n = 5
for i in range(n):
for j in range(n):
print("*", end=" ")
print()
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
[18]:
#natural number
for i in range(0,11):
print(i)
0
1
2
3
Type here to search
ENG
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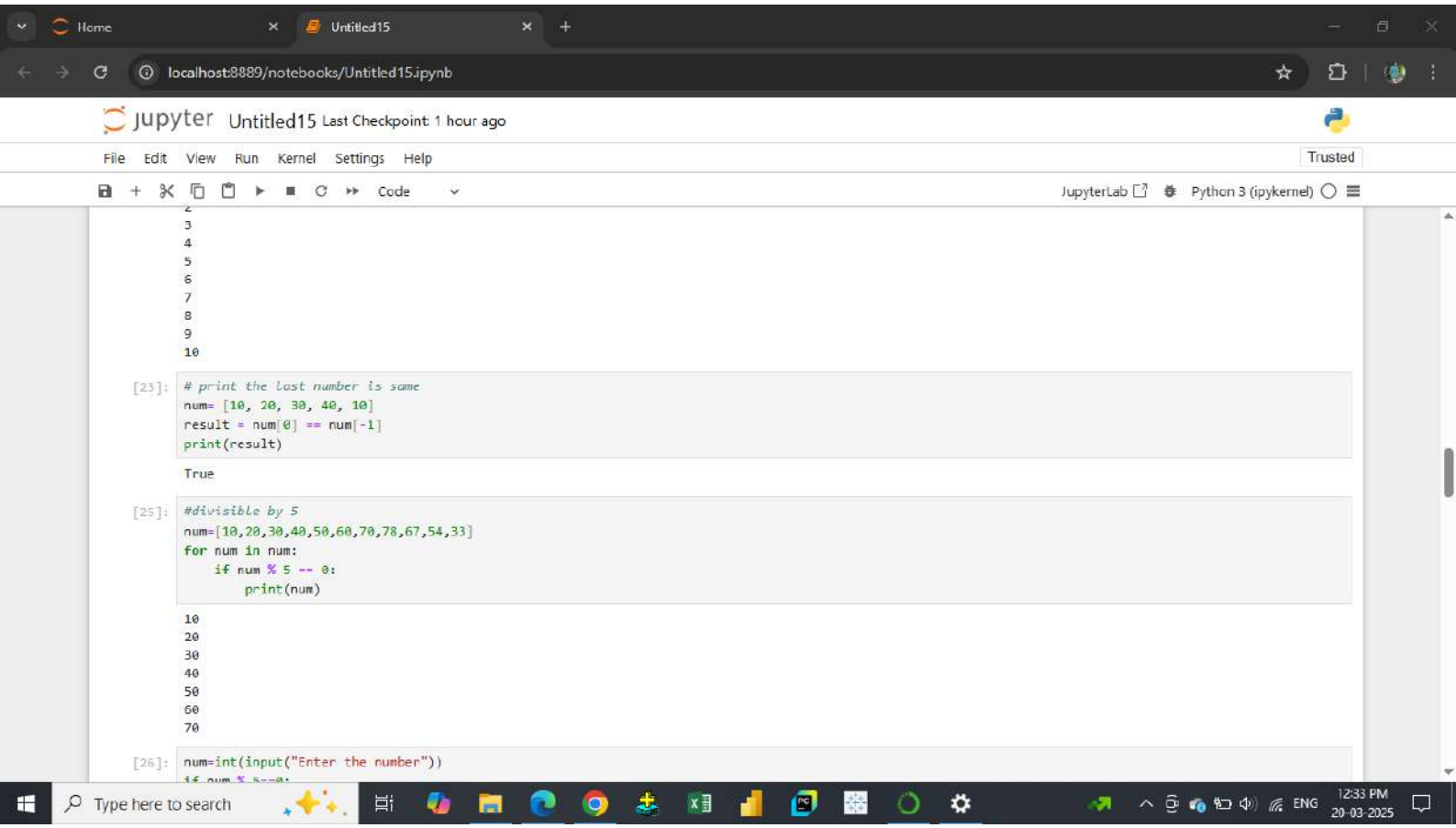
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Code
JupyterLab
Python 3 (ipykernel)
2
3
4
5
6
7
8
9
10
[23]:
# print the last number is same
num= [10, 20, 30, 40, 10]
result = num[0] == num[-1]
print(result)
True
[25]:
#divisible by 5
num=[10,20,30,40,50,60,70,78,67,54,33]
for num in num:
if num % 5 == 0:
print(num)
10
20
30
40
50
60
70
[26]:
num=int(input("Enter the number"))
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Code

JupyterLab | Python 3 (ipykernel)

[26]:
```
num=int(input("Enter the number"))
if num % 5==0:
    print("this number is Divisible By 5",num)
else:
    print("this number is not divsible by 5",num)
```

```
Enter the number 23
this number is not divsible by 5 23
```

[29]:
```
#vowel or consonant
ch = input("Enter a character: ").lower()
if ch in ('a', 'e', 'i', 'o', 'u'):
    print(f"{ch} is a vowel.")
elif ch.isalpha():
    print(f"{ch} is a consonant.")
else:
    print("it is a consonant")
```

```
Enter a character:  e
e is a vowel.
```

[30]:
```
# Print even numbers
print("Even numbers between 10 and 55:")
for i in range(10, 56):
    if i % 2 == 0:
        print(i)

# Print odd numbers
print("\nOdd numbers between 10 and 55:")
for i in range(10, 56):
```

Type here to search

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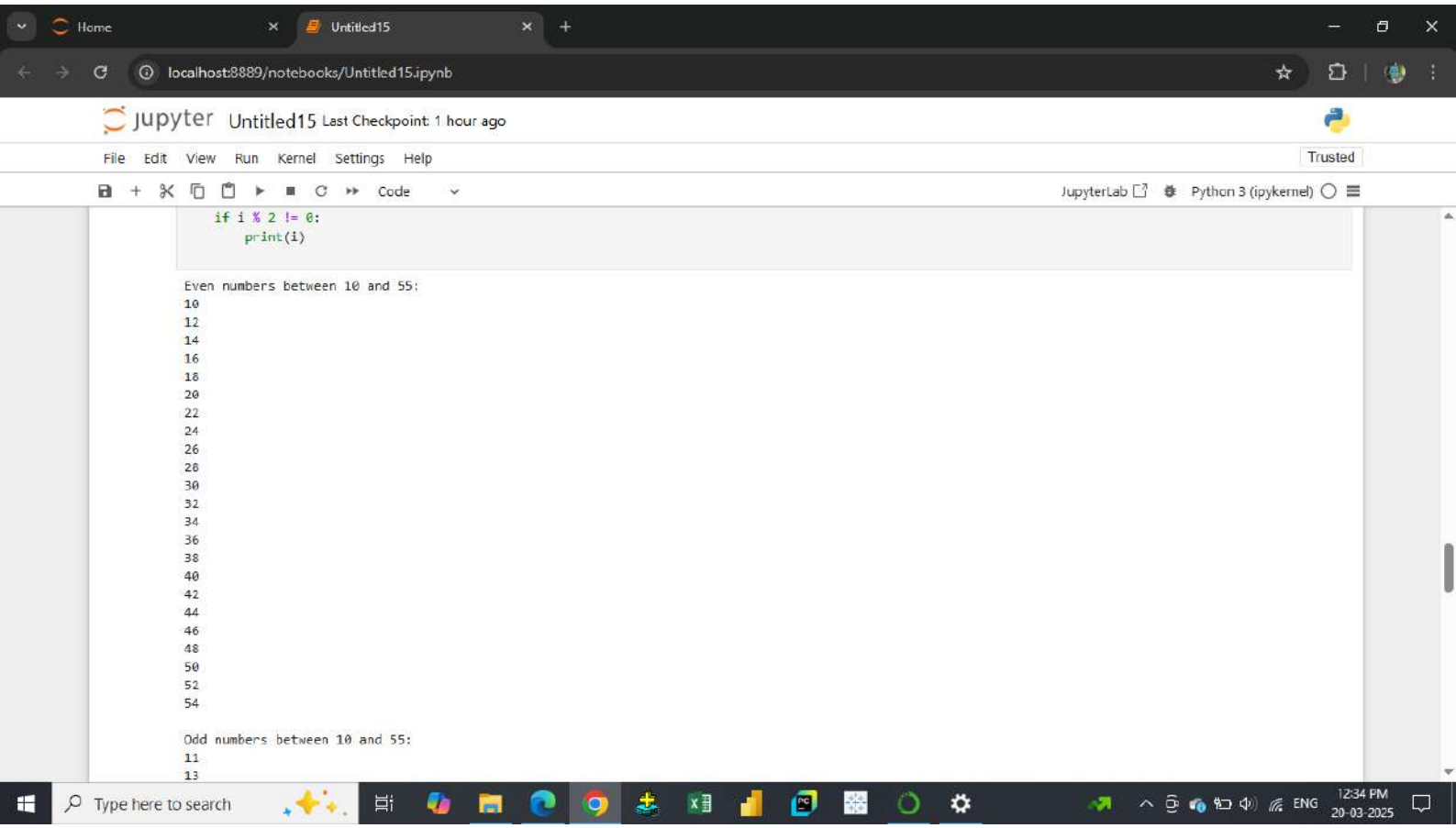
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Code
JupyterLab
Python 3 (ipykernel)
if i % 2 != 0:
print(i)
Even numbers between 10 and 55:
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
Odd numbers between 10 and 55:
11
13
Type here to search
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Code

JupyterLab Python 3 (ipykernel)

```
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
51
53
55
```

[31]:
```
#calculate factorial of each element in a list
import math
numbers = [3, 5, 7, 4, 6]
for num in numbers:
    factorial = math.factorial(num)
    print(f"The factorial of {num} is {factorial}")
```

```
The factorial of 3 is 6
The factorial of 5 is 120
```

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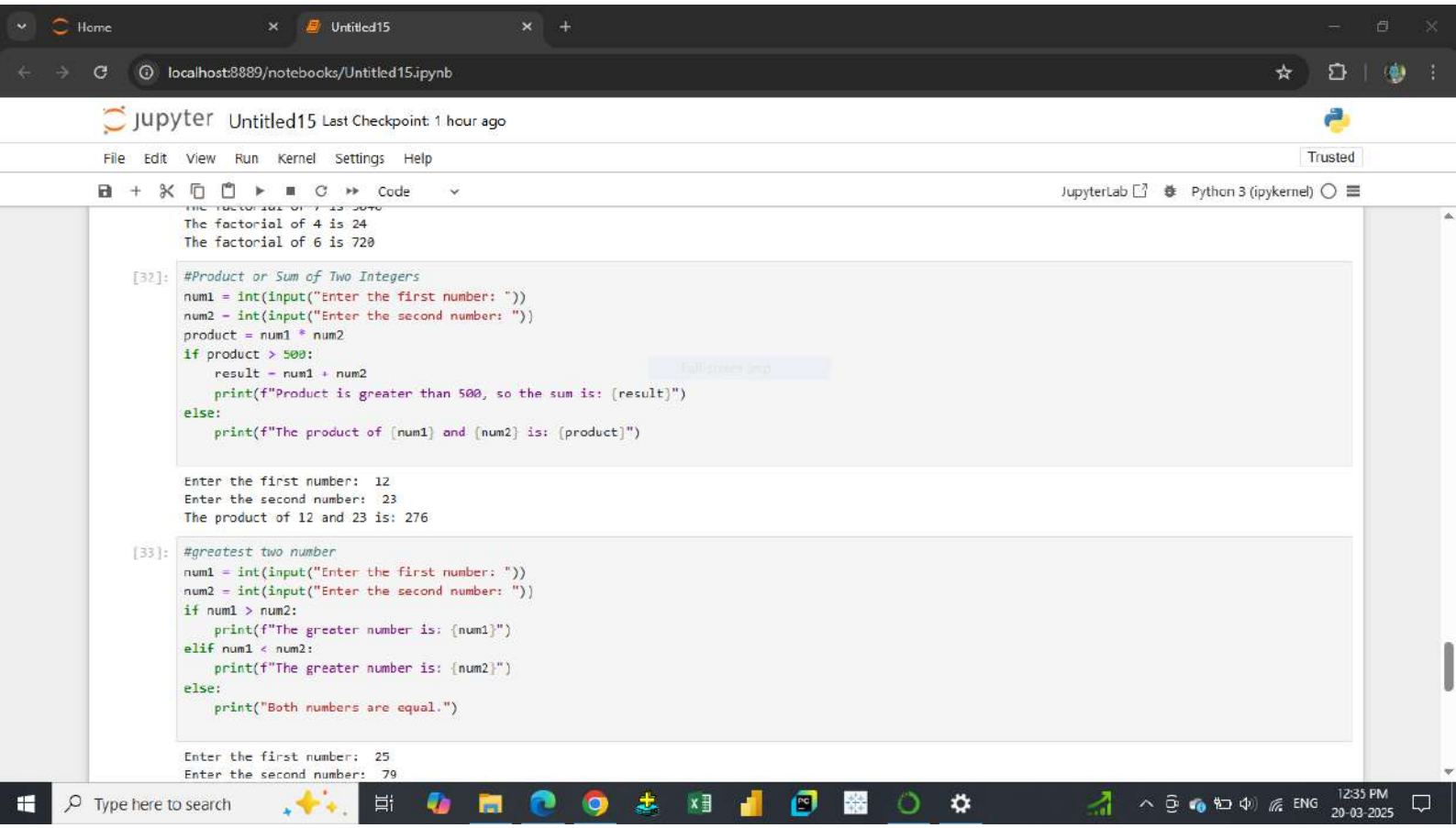
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Code
JupyterLab
Python 3 (ipykernel)
The factorial of 4 is 24
The factorial of 6 is 720
[32]:
#Product or Sum of Two Integers
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
product = num1 * num2
if product > 500:
result = num1 + num2
print(f"Product is greater than 500, so the sum is: {result}")
else:
print(f"The product of {num1} and {num2} is: {product}")
Enter the first number: 12
Enter the second number: 23
The product of 12 and 23 is: 276
[33]:
#greatest two number
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
if num1 > num2:
print(f"The greater number is: {num1}")
elif num1 < num2:
print(f"The greater number is: {num2}")
else:
print("Both numbers are equal.")
Enter the first number: 25
Enter the second number: 79
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Code

JupyterLab | Python 3 (ipykernel)

```
The greater number is: 79
```

[34]:
```
# Greatest of Three Numbers
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
num3 = int(input("Enter the third number: "))
if num1 >= num2 and num1 >= num3:
    print(f"The greatest number is: {num1}")
elif num2 >= num1 and num2 >= num3:
    print(f"The greatest number is: {num2}")
else:
    print(f"The greatest number is: {num3}")
```

```
Enter the first number:  23
Enter the second number:  56
Enter the third number:  90
The greatest number is: 90
```

[35]:
```
# Separate positive and negative numbers
x = [23, 4, -6, 23, -9, 21, 3, -45, -8]
positive_numbers = []
negative_numbers = []
for num in x:
    if num >= 0:
        positive_numbers.append(num)
    else:
        negative_numbers.append(num)
print("Positive numbers:", positive_numbers)
print("Negative numbers:", negative_numbers)
```

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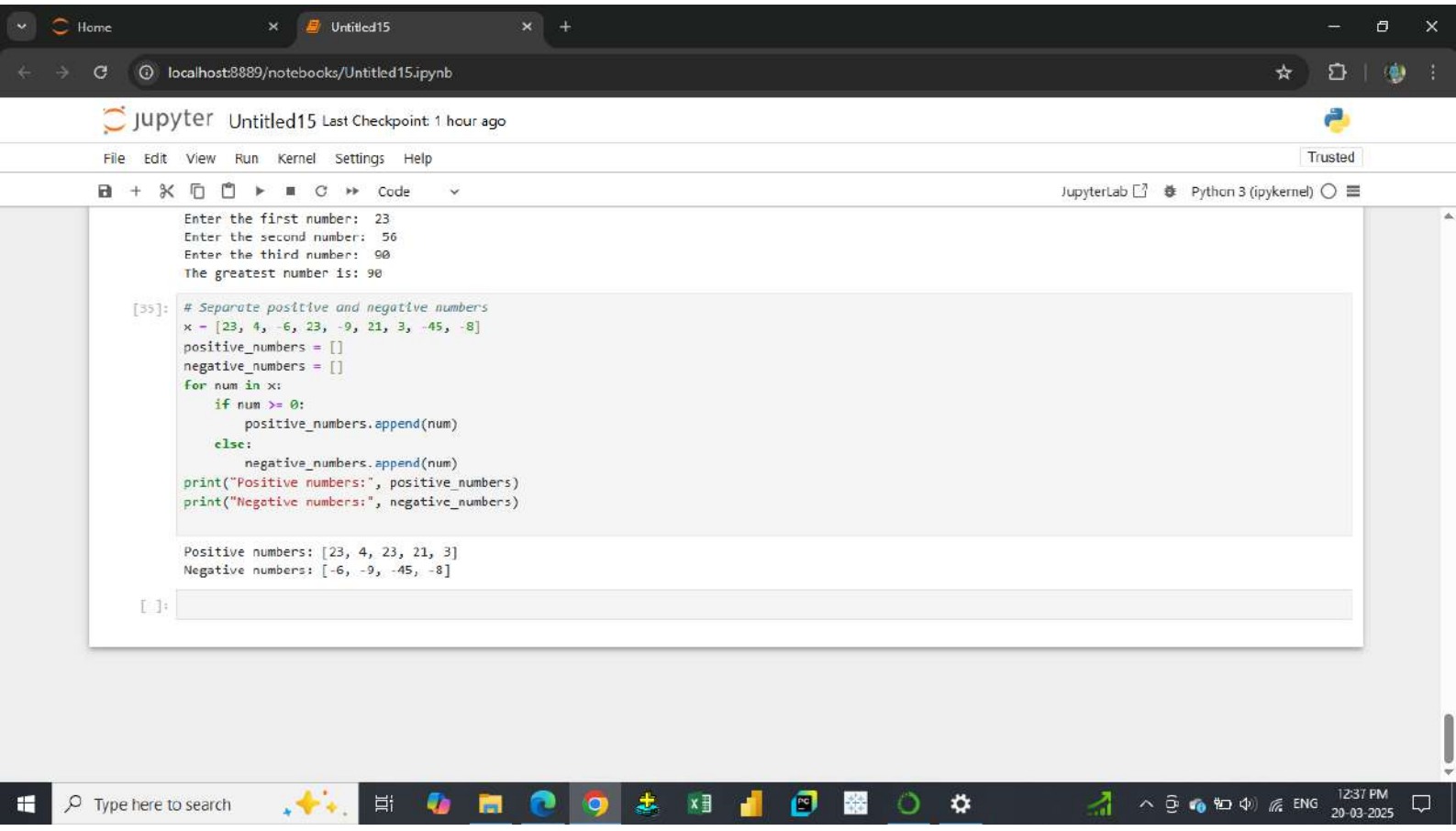
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Code
JupyterLab
Python 3 (ipykernel)
Enter the first number: 23
Enter the second number: 56
Enter the third number: 90
The greatest number is: 90
[35]:
# Separate positive and negative numbers
x = [23, 4, -6, 23, -9, 21, 3, -45, -8]
positive_numbers = []
negative_numbers = []
for num in x:
if num >= 0:
positive_numbers.append(num)
else:
negative_numbers.append(num)
print("Positive numbers:", positive_numbers)
print("Negative numbers:", negative_numbers)
Positive numbers: [23, 4, 23, 21, 3]
Negative numbers: [-6, -9, -45, -8]
[ ]:
Type here to search
ENG
12:37 PM
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