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Code

JupyterLab Python 3 (ipykernel)

[14]:
```
# number is positive or negative
num=int(input("Enter the number"))
if num > 0:
     print("The number is positive",num)
elif num < 0:
    print("The number is negative.",num)
```

```
Enter the number -8
The number is negative. -8
```

[16]:
```
#identyfy number is odd or even
num=int(input("Enter the number"))
if num % 2== 0:
        print("The number is even",num)
else:
        print("The number is odd",num)
```

```
Enter the number 45
The number is odd 45
```

[18]:
```
#calculate the power of a number
base=int(input("Enter the base"))
exponent=int(input("Enter the exponent"))
result=base**exponent
print(f"{base} raised to the power of {exponent} is {result}")
```

```
Enter the base 5
```

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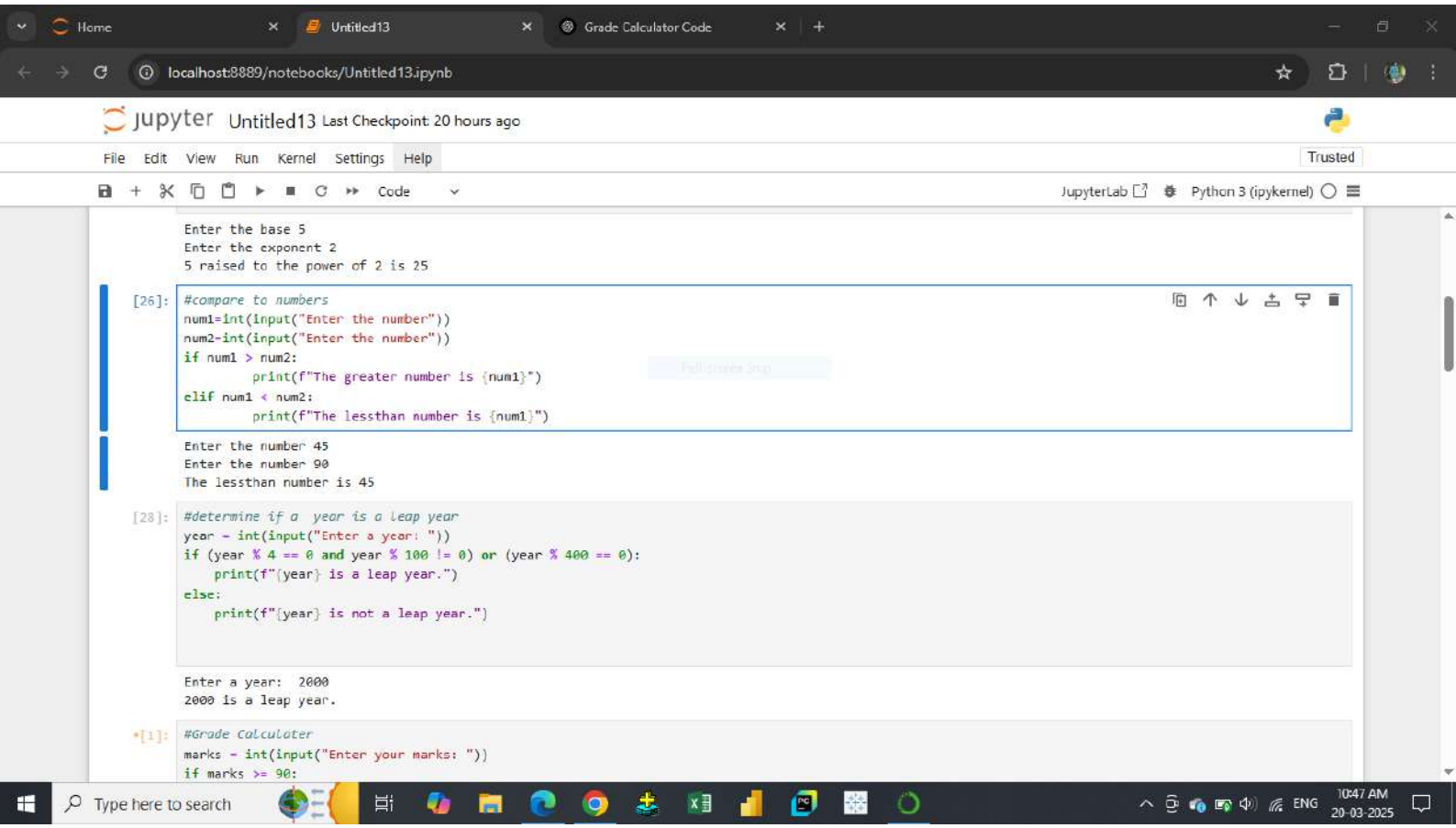
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Python 3 (ipykernel)
Enter the base 5
Enter the exponent 2
5 raised to the power of 2 is 25
[26]:
#compare to numbers
num1=int(input("Enter the number"))
num2=int(input("Enter the number"))
if num1 > num2:
print(f"The greater number is {num1}")
elif num1 < num2:
print(f"The lessthan number is {num1}")
Enter the number 45
Enter the number 90
The lessthan number is 45
[28]:
#determine if a year is a leap year
year = int(input("Enter a year: "))
if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):
print(f"{year} is a leap year.")
else:
print(f"{year} is not a leap year.")
Enter a year: 2000
2000 is a leap year.
*[1]:
#Grade Calculater
marks = int(input("Enter your marks: "))
if marks >= 90:
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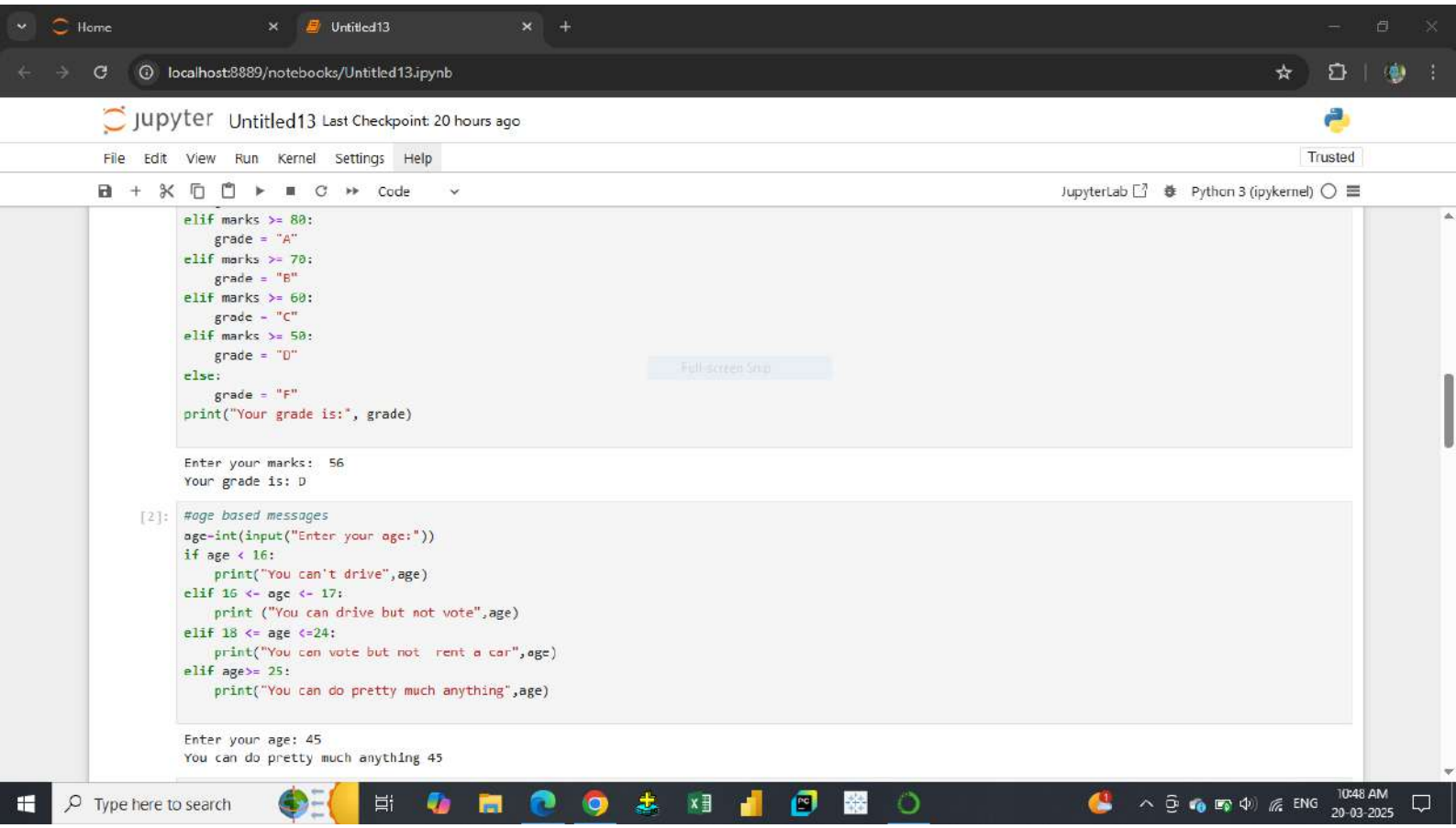
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Python 3 (ipykernel)
elif marks >= 80:
grade = "A"
elif marks >= 70:
grade = "B"
elif marks >= 60:
grade = "C"
elif marks >= 50:
grade = "D"
else:
grade = "F"
print("Your grade is:", grade)
Enter your marks: 56
Your grade is: D
[2]:
#age based messages
age=int(input("Enter your age:"))
if age < 16:
print("You can't drive",age)
elif 16 <= age <= 17:
print ("You can drive but not vote",age)
elif 18 <= age <=24:
print("You can vote but not rent a car",age)
elif age>= 25:
print("You can do pretty much anything",age)
Enter your age: 45
You can do pretty much anything 45
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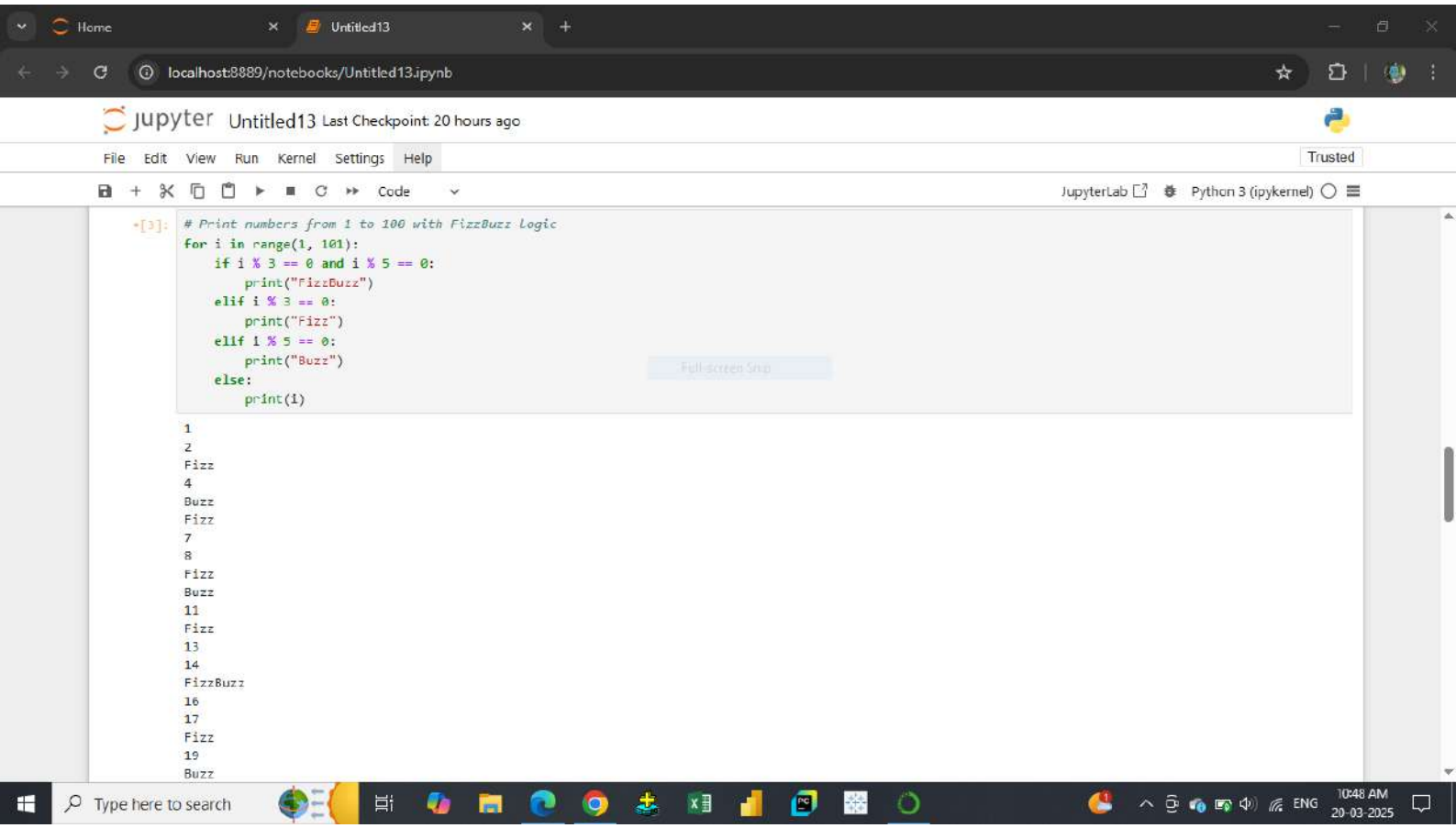
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JupyterLab
Python 3 (ipykernel)
[3]:
# Print numbers from 1 to 100 with FizzBuzz logic
for i in range(1, 101):
if i % 3 == 0 and i % 5 == 0:
print("FizzBuzz")
elif i % 3 == 0:
print("Fizz")
elif i % 5 == 0:
print("Buzz")
else:
print(i)
1
2
Fizz
4
Buzz
Fizz
7
8
Fizz
Buzz
11
Fizz
13
14
FizzBuzz
16
17
Fizz
19
Buzz
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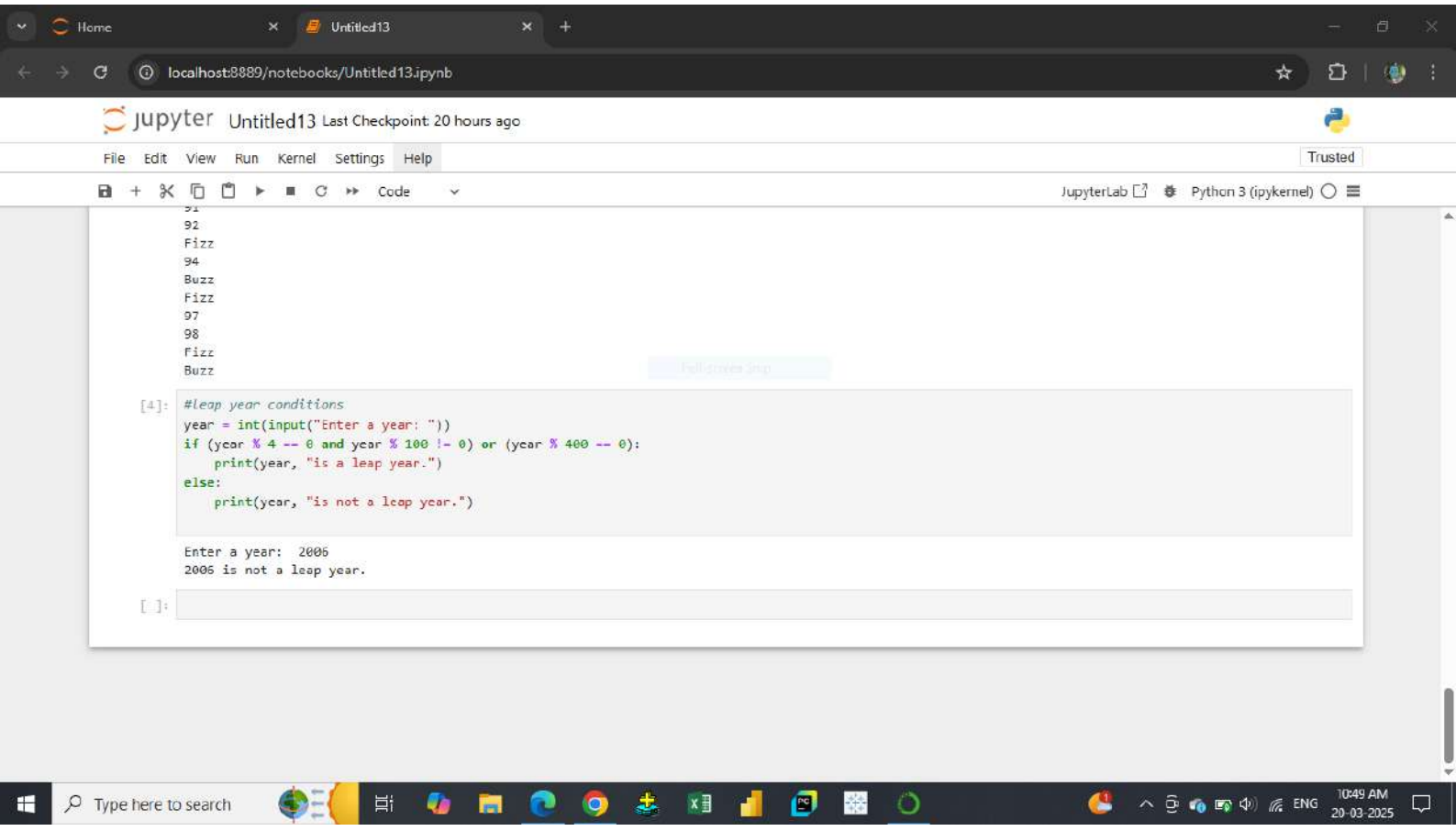
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JupyterLab
Python 3 (ipykernel)
92
Fizz
94
Buzz
Fizz
97
98
Fizz
Buzz
[4]:
#leap year conditions
year = int(input("Enter a year: "))
if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):
print(year, "is a leap year.")
else:
print(year, "is not a leap year.")
Enter a year: 2006
2006 is not a leap year.
[ ]:

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