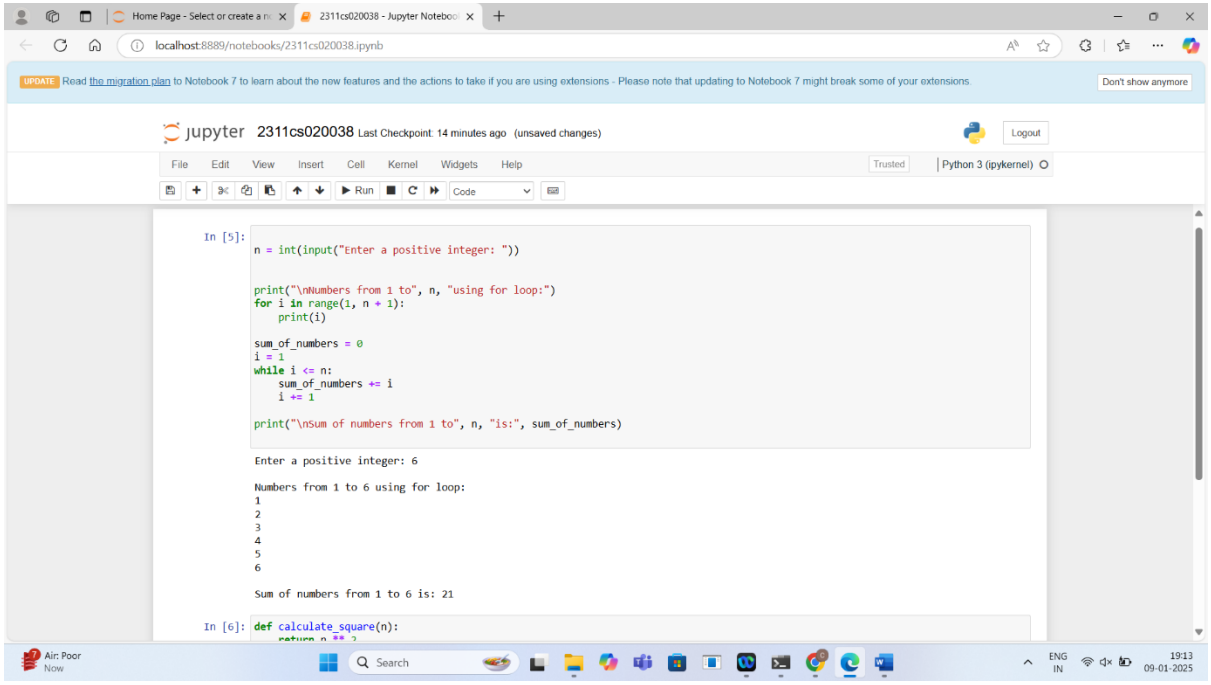
Day 5

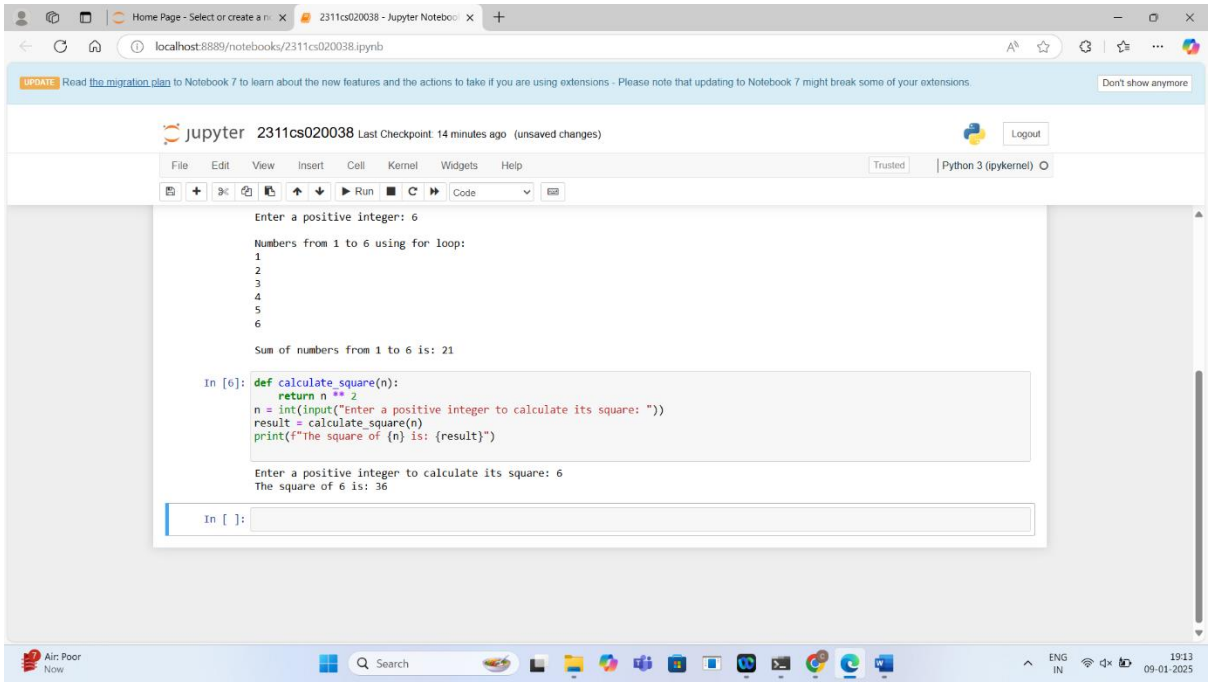
1)Write a Python program that performs the following tasks:

1. Ask the user to enter a positive integer `n`.
2. Use a `for` loop to print all numbers from `1` to `n` on separate lines.
3. Use a `while` loop to calculate the sum of all numbers from `1` to `n` and print the result.

2)Write a Python program that includes a user-defined function to perform the following tasks:

1. Define a function named calculate_square that takes a single argument `n` and returns the square of `n`.
2. In the main program, ask the user to input a positive integer.
3. Call the calculate_square function with the user-provided number and display the result.




Home Page - Select or create a n
2311cs020038 - Jupyter Notebo
localhost:8889/notebooks/2311cs020038.ipynb
UPDATE Read the migration plan to Notebook 7 to learn about the new features and the actions to take if you are using extensions - Please note that updating to Notebook 7 might break some of your extensions.
Don't show anymore
jupyter 2311cs020038 Last Checkpoint: 14 minutes ago (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
Enter a positive integer: 6
Numbers from 1 to 6 using for loop:
1
2
3
4
5
6
Sum of numbers from 1 to 6 is: 21
In [6]:
def calculate_square(n):
return n ** 2
n = int(input("Enter a positive integer to calculate its square: "))
result = calculate_square(n)
print(f"The square of {n} is: {result}")
Enter a positive integer to calculate its square: 6
The square of 6 is: 36
In [ ]:
Air: Poor
Now
Search
ENG
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