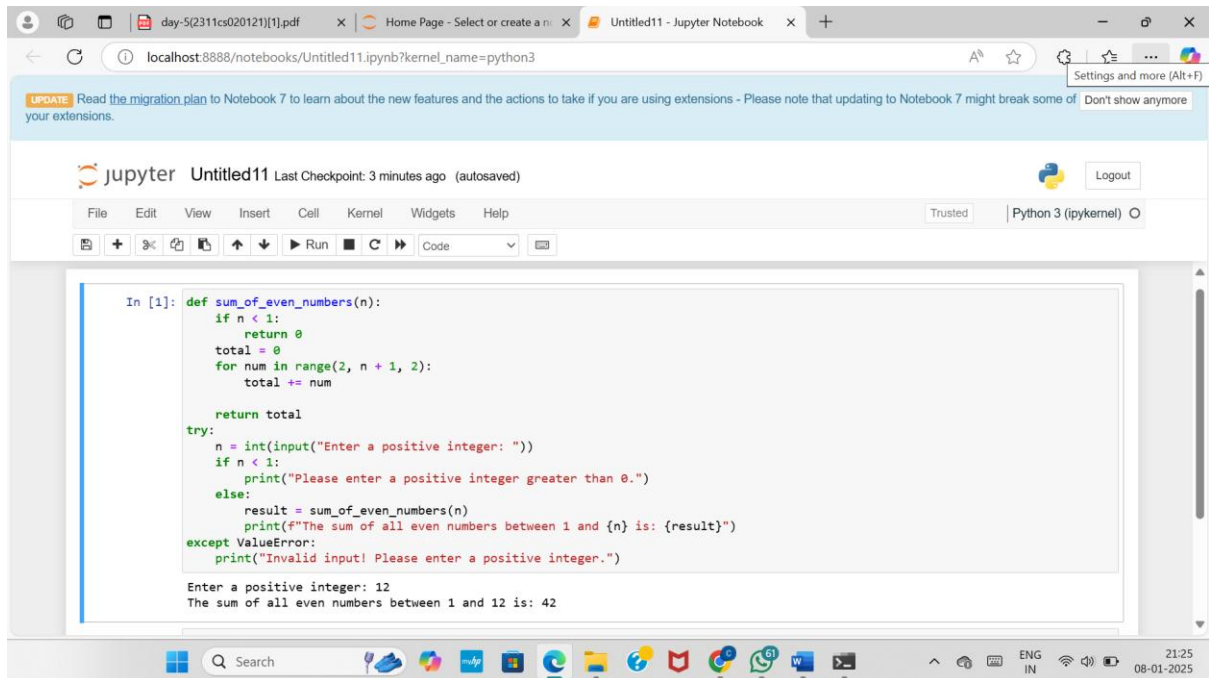


Day-4(2311cs020121)

Write a Python program to calculate the sum of all even numbers between 1 and a given positive integer n



The screenshot shows a Jupyter Notebook titled 'Untitled11' running on a local host. The notebook contains a Python function `sum_of_even_numbers(n)` that calculates the sum of even numbers from 2 to n. The function uses a `for` loop to iterate through the range and accumulate the sum. Below the function, a `try` block prompts the user to enter a positive integer. If the input is valid, it calls the function and prints the result. If a `ValueError` occurs, it prints an error message. The output shows the user entering 12 and receiving the sum 42.

```
In [1]: def sum_of_even_numbers(n):
        if n < 1:
            return 0
        total = 0
        for num in range(2, n + 1, 2):
            total += num

        return total
    try:
        n = int(input("Enter a positive integer: "))
        if n < 1:
            print("Please enter a positive integer greater than 0.")
        else:
            result = sum_of_even_numbers(n)
            print(f"The sum of all even numbers between 1 and {n} is: {result}")
    except ValueError:
        print("Invalid input! Please enter a positive integer.")

Enter a positive integer: 12
The sum of all even numbers between 1 and 12 is: 42
```