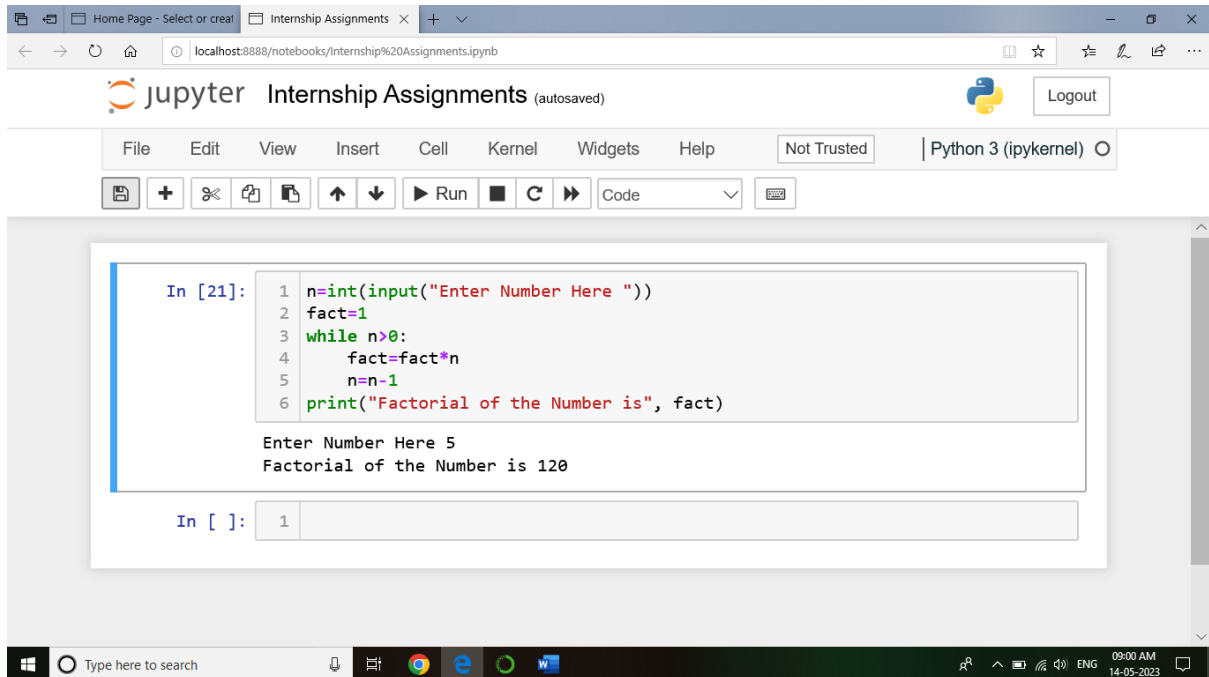


Python Programming Assignment-1

11. Write a python program to find the factorial of a number.



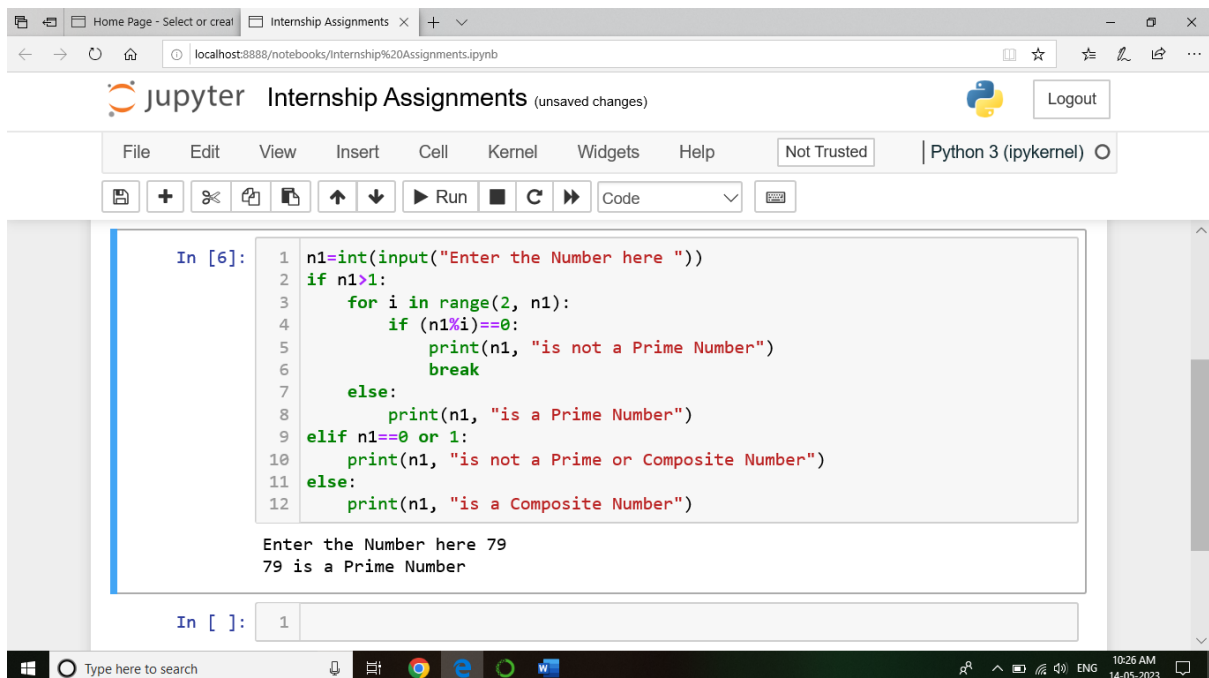
The screenshot shows a Jupyter Notebook interface with the title 'Internship Assignments (autosaved)'. The code cell 'In [21]:' contains a Python program that prompts the user to enter a number and calculates its factorial using a while loop. The output shows the user entered 5, and the factorial is 120. The interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), a toolbar with icons for file operations and execution, and a status bar at the bottom showing the system clock and language settings.

```
In [21]: 1 n=int(input("Enter Number Here "))
          2 fact=1
          3 while n>0:
          4     fact=fact*n
          5     n=n-1
          6 print("Factorial of the Number is", fact)

Enter Number Here 5
Factorial of the Number is 120

In [ ]: 1
```

12. Write a python program to find whether a number is prime or composite.



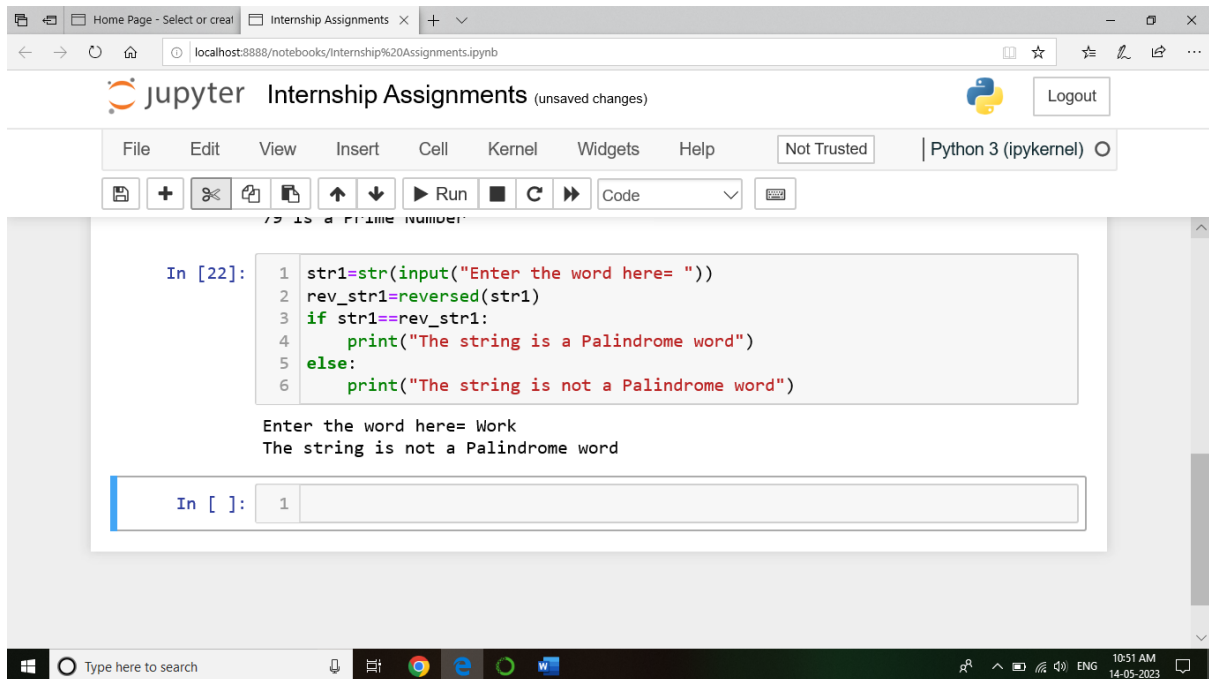
The screenshot shows a Jupyter Notebook interface with the title 'Internship Assignments (unsaved changes)'. The code cell 'In [6]:' contains a Python program that prompts the user to enter a number and checks if it is prime or composite using a for loop and conditional statements. The output shows the user entered 79, and the program outputs '79 is a Prime Number'. The interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), a toolbar with icons for file operations and execution, and a status bar at the bottom showing the system clock and language settings.

```
In [6]: 1 n1=int(input("Enter the Number here "))
          2 if n1>1:
          3     for i in range(2, n1):
          4         if (n1%i)==0:
          5             print(n1, "is not a Prime Number")
          6             break
          7     else:
          8         print(n1, "is a Prime Number")
          9 elif n1==0 or 1:
          10     print(n1, "is not a Prime or Composite Number")
          11 else:
          12     print(n1, "is a Composite Number")

Enter the Number here 79
79 is a Prime Number

In [ ]: 1
```

13. Write a python program to check whether a given string is palindrome or not.



The screenshot shows a Jupyter Notebook titled "Internship Assignments" with a Python 3 (ipykernel) environment. The code in cell [22] is as follows:

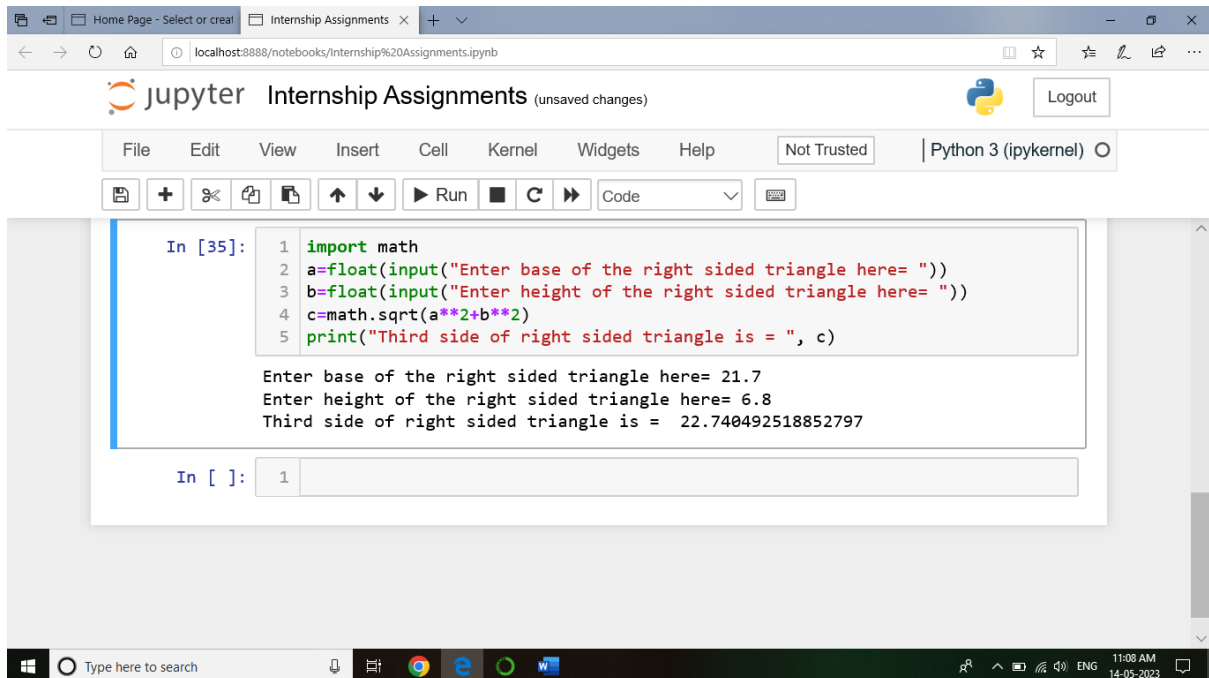
```
In [22]: 1 str1=str(input("Enter the word here= "))
2 rev_str1=reversed(str1)
3 if str1==rev_str1:
4     print("The string is a Palindrome word")
5 else:
6     print("The string is not a Palindrome word")
```

The output of the code is:

```
Enter the word here= Work
The string is not a Palindrome word
```

Below the code cell, there is an input field with the value "1" and a label "In []:".

14. Write a Python program to get the third side of right-angled triangle from two given sides.



The screenshot shows a Jupyter Notebook titled "Internship Assignments" with a Python 3 (ipykernel) environment. The code in cell [35] is as follows:

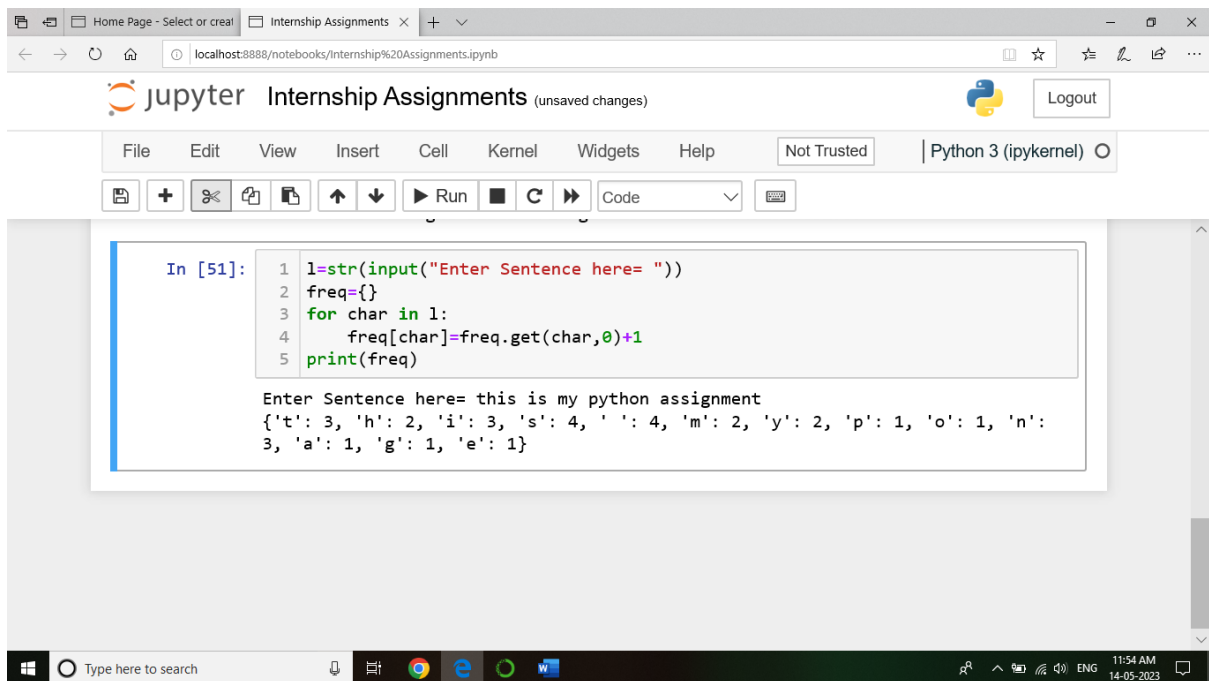
```
In [35]: 1 import math
2 a=float(input("Enter base of the right sided triangle here= "))
3 b=float(input("Enter height of the right sided triangle here= "))
4 c=math.sqrt(a**2+b**2)
5 print("Third side of right sided triangle is = ", c)
```

The output of the code is:

```
Enter base of the right sided triangle here= 21.7
Enter height of the right sided triangle here= 6.8
Third side of right sided triangle is = 22.740492518852797
```

Below the code cell, there is an input field with the value "1" and a label "In []:".

15. Write a python program to print the frequency of each of the characters present in a given string.



The screenshot shows a Jupyter Notebook titled "Internship Assignments" running on a local host. The notebook contains a single code cell with the following Python code:

```
In [51]: 1 l=str(input("Enter Sentence here= "))
          2 freq={}
          3 for char in l:
          4     freq[char]=freq.get(char,0)+1
          5 print(freq)
```

The output of the code is displayed below the code cell:

```
Enter Sentence here= this is my python assignment
{'t': 3, 'h': 2, 'i': 3, 's': 4, ' ': 4, 'm': 2, 'y': 2, 'p': 1, 'o': 1, 'n': 3, 'a': 1, 'g': 1, 'e': 1}
```

The Jupyter Notebook interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), a toolbar with icons for file operations and execution, and a status bar at the bottom showing the system clock and language settings.