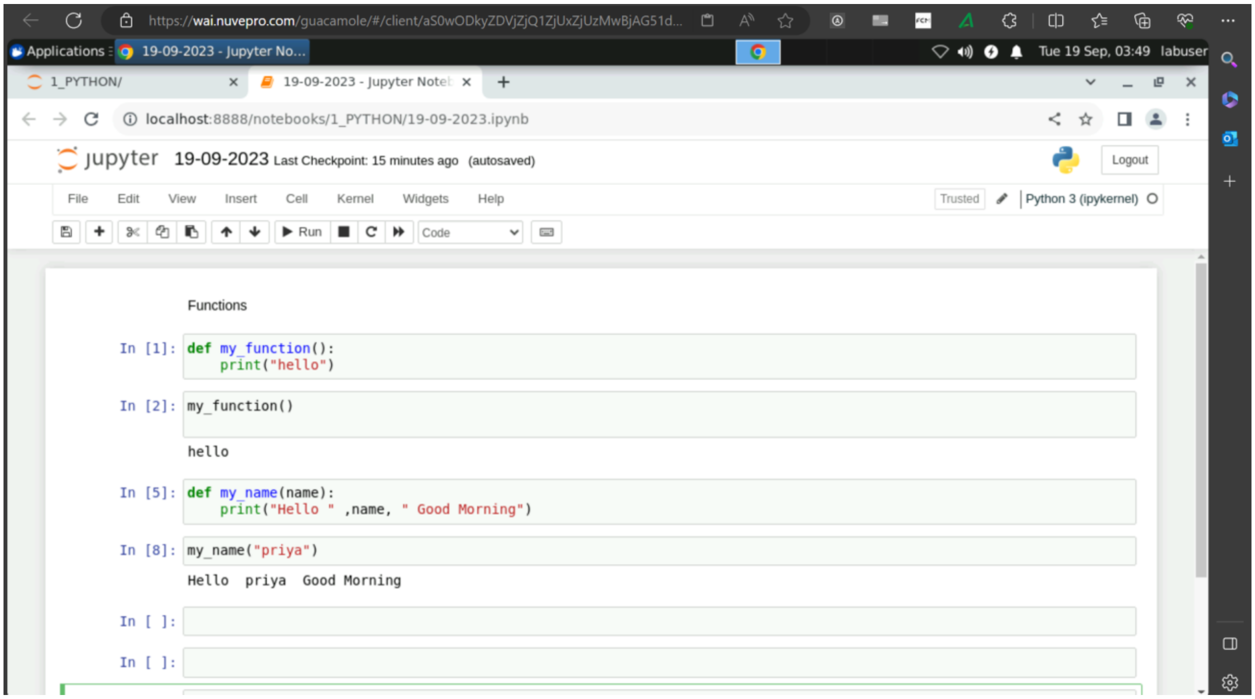
PYTHON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Python 3 (ipykernel)
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Code

Functions

```
In [1]: def my_function():
            print("hello")

In [2]: my_function()

        hello

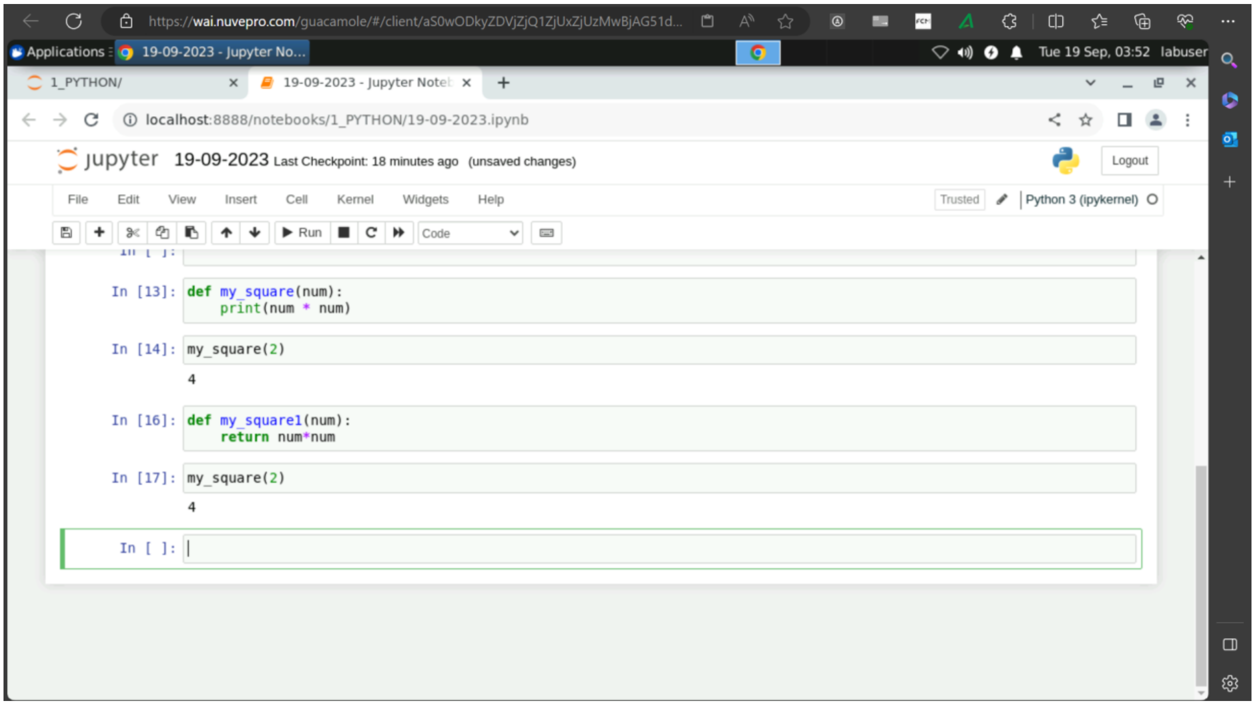
In [5]: def my_name(name):
            print("Hello " ,name, " Good Morning")

In [8]: my_name("priya")

        Hello  priya  Good Morning

In [ ]:

In [ ]:
```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```
In [13]: def my_square(num):
             print(num * num)

In [14]: my_square(2)

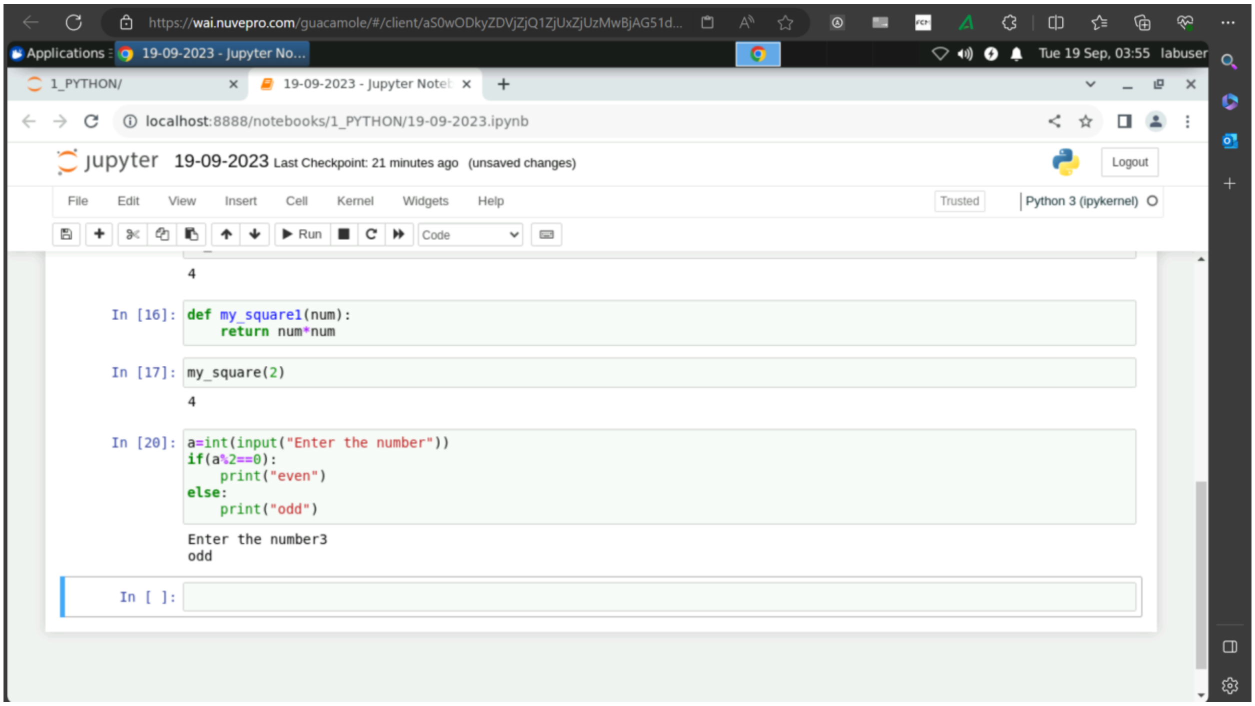
         4

In [16]: def my_square1(num):
             return num*num

In [17]: my_square(2)

         4

In [ ]:
```



```
4

In [16]: def my_square1(num):
             return num*num

In [17]: my_square(2)

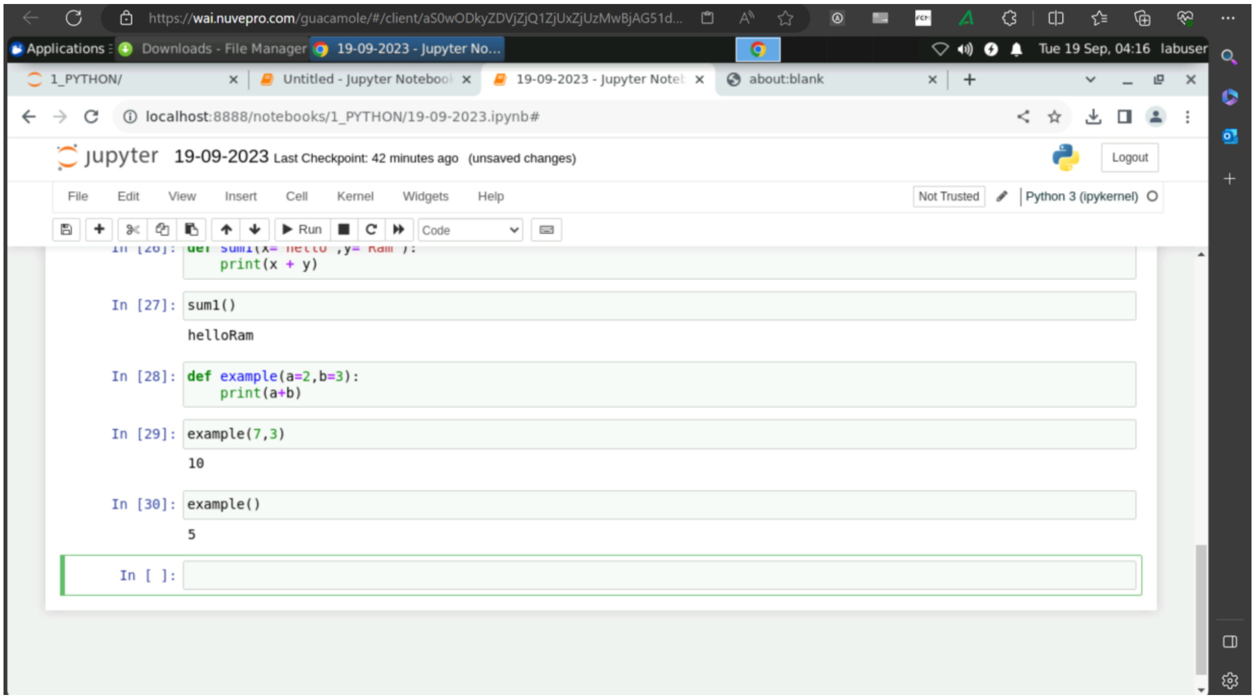
4

In [20]: a=int(input("Enter the number"))
         if(a%2==0):
             print("even")
         else:
             print("odd")

Enter the number3
odd

In [ ]:
```

Default Argument:



```
In [26]: def sum1(x="hello",y="Ram"):
             print(x + y)

In [27]: sum1()

helloRam

In [28]: def example(a=2,b=3):
             print(a+b)

In [29]: example(7,3)

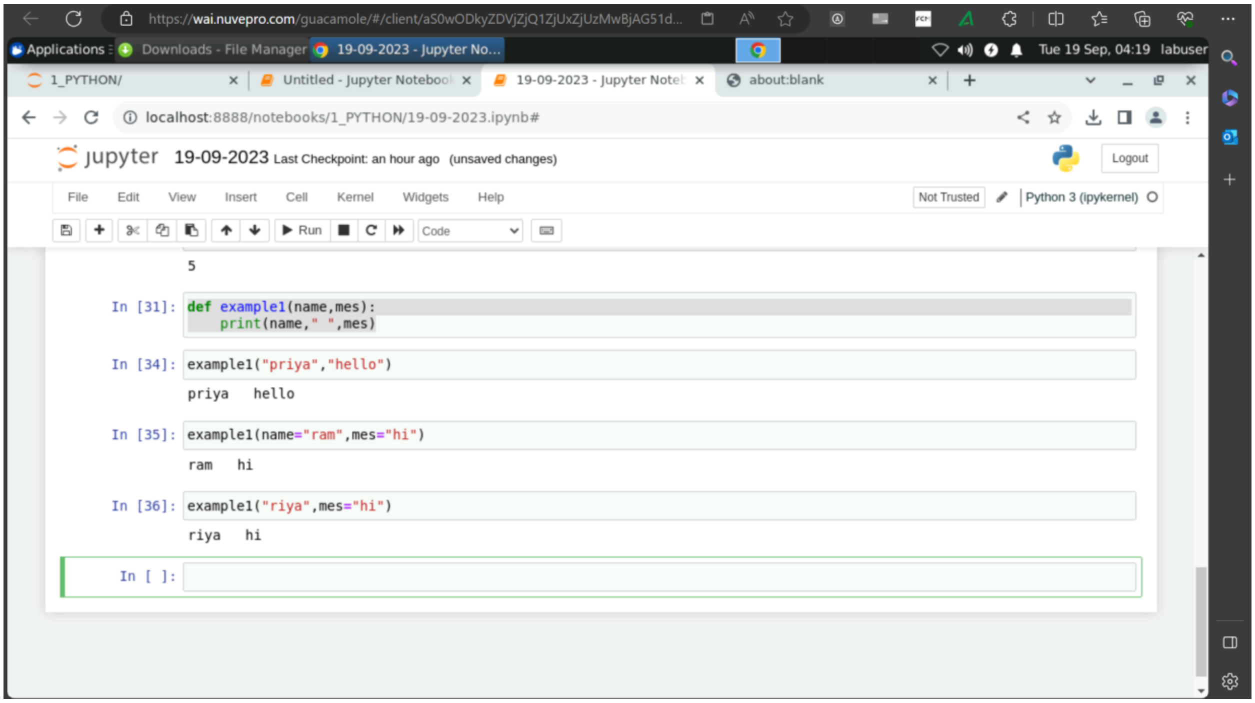
10

In [30]: example()

5

In [ ]:
```

Positional Argument and Keyword Argument: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```
    5

In [31]: def example1(name,mes):
             print(name," ",mes)

In [34]: example1("priya","hello")

         priya   hello

In [35]: example1(name="ram",mes="hi")

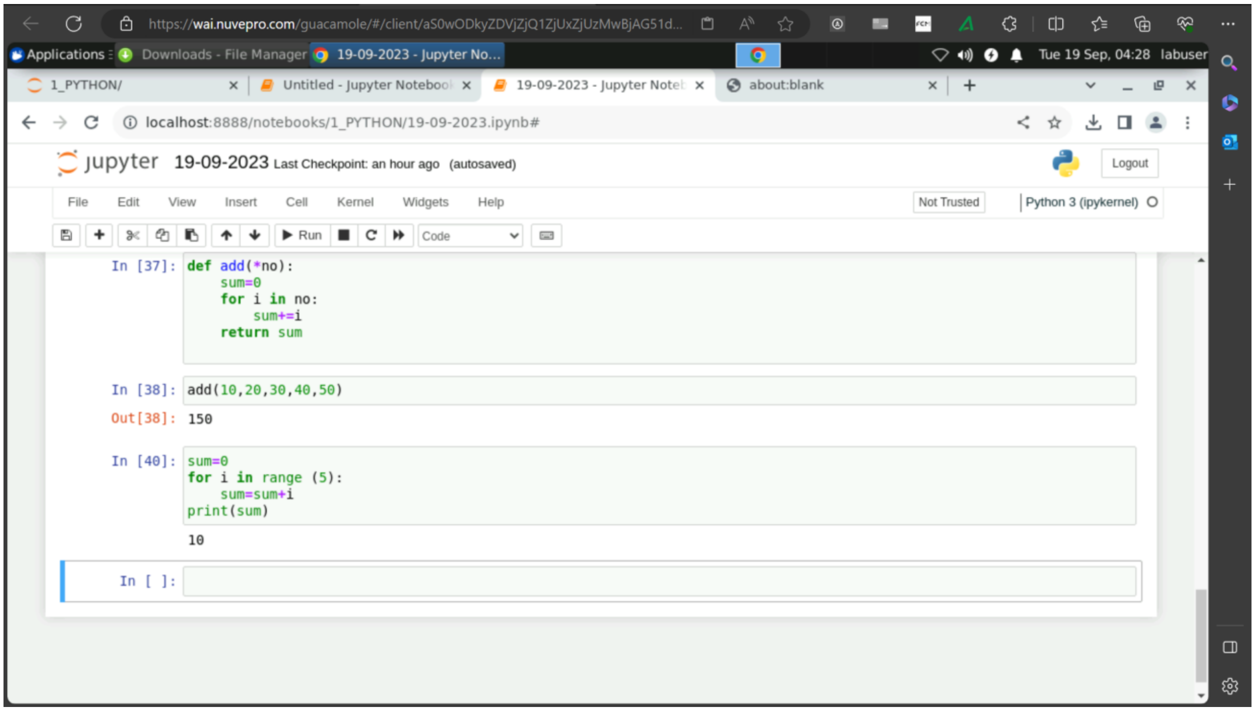
         ram   hi

In [36]: example1("riya",mes="hi")

         riya   hi

In [ ]:
```

Variable length Argument: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```
In [37]: def add(*no):
             sum=0
             for i in no:
                 sum+=i
             return sum

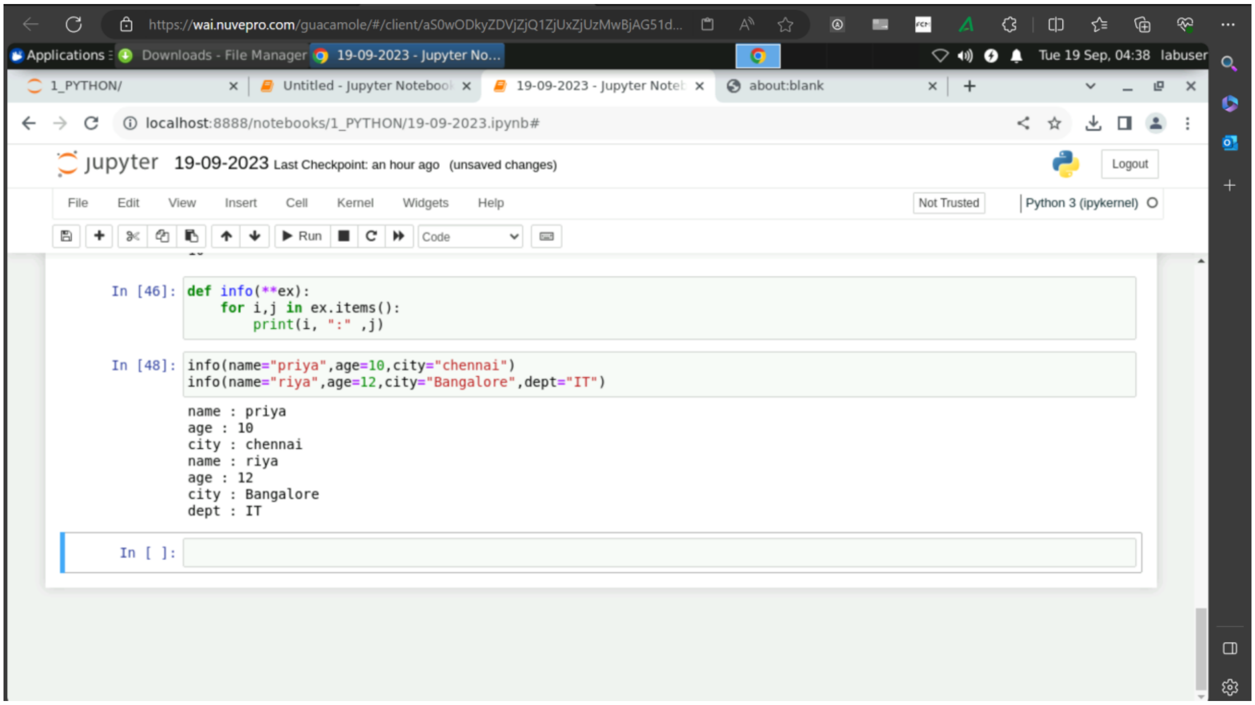
In [38]: add(10,20,30,40,50)

Out[38]: 150

In [40]: sum=0
         for i in range (5):
             sum=sum+i
         print(sum)

         10

In [ ]:
```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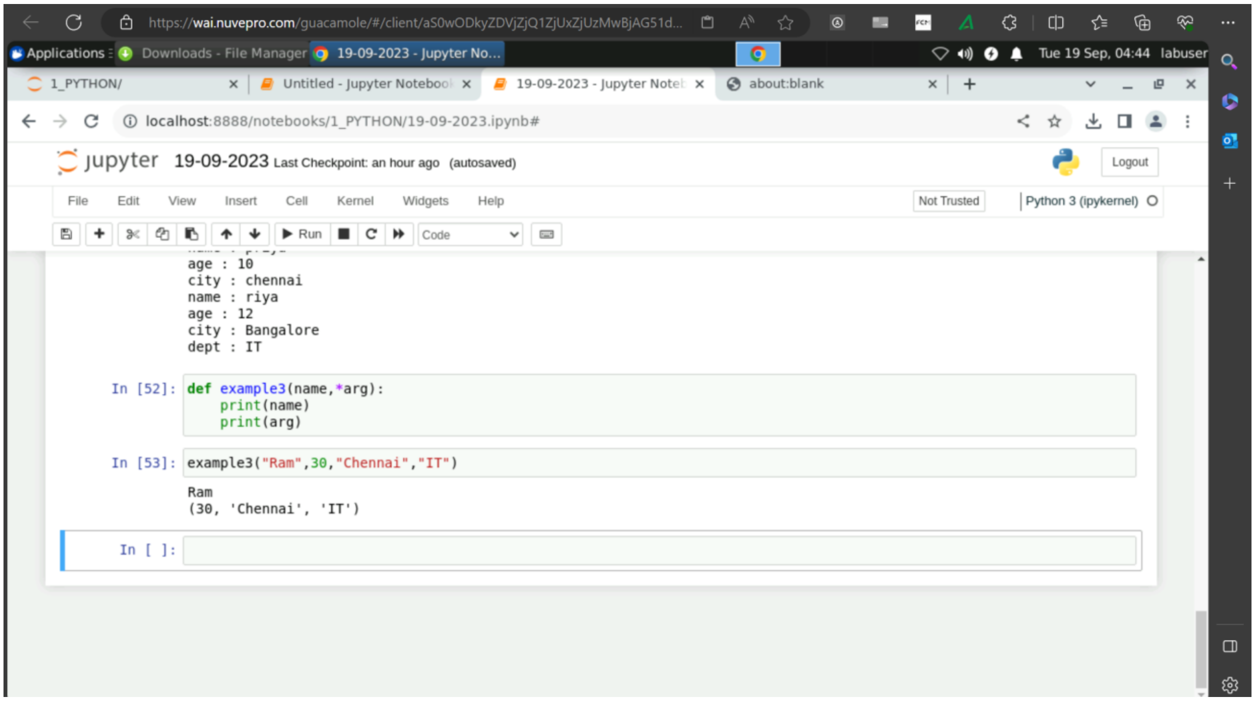
```
In [46]: def info(**ex):
             for i,j in ex.items():
                 print(i, ":" ,j)
```

```
In [48]: info(name="priya",age=10,city="chennai")
         info(name="riya",age=12,city="Bangalore",dept="IT")
```

```
name : priya
age : 10
city : chennai
name : riya
age : 12
city : Bangalore
dept : IT
```

```
In [ ]:
```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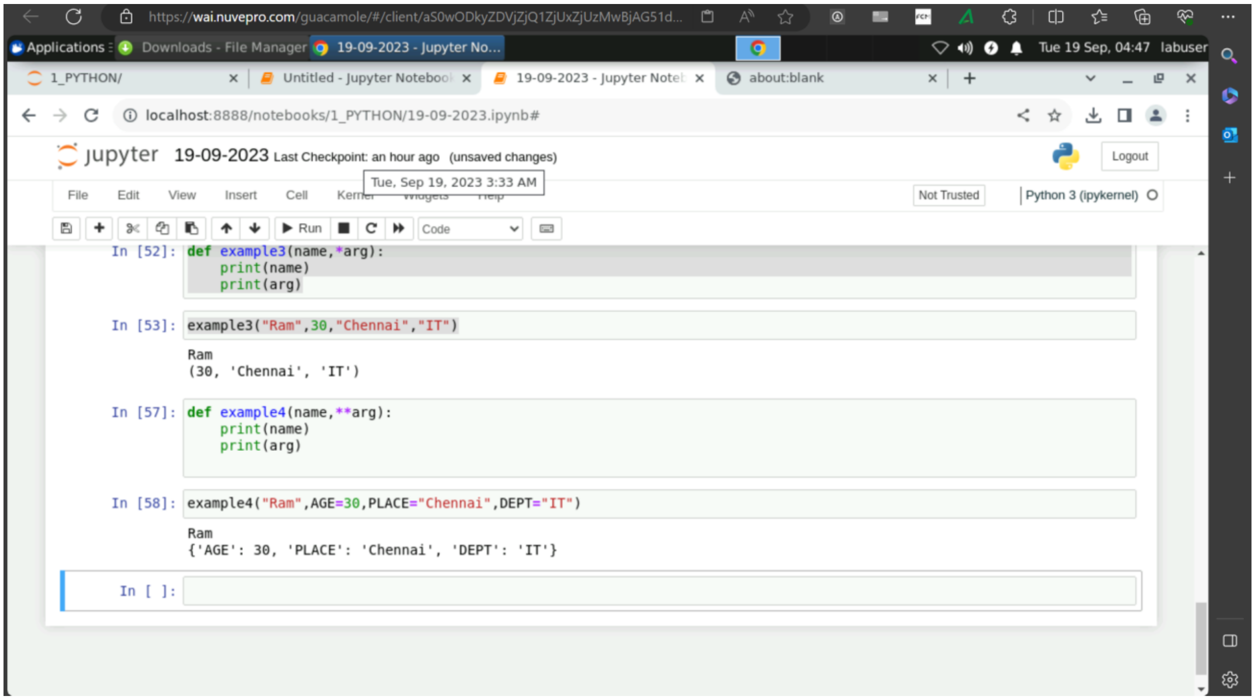
```
age : 10
city : chennai
name : riya
age : 12
city : Bangalore
dept : IT
```

```
In [52]: def example3(name,*arg):
             print(name)
             print(arg)
```

```
In [53]: example3("Ram",30,"Chennai","IT")
```

```
Ram
(30, 'Chennai', 'IT')
```

```
In [ ]:
```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```
In [52]: def example3(name,*arg):
             print(name)
             print(arg)

In [53]: example3("Ram",30,"Chennai","IT")

         Ram
         (30, 'Chennai', 'IT')

In [57]: def example4(name,**arg):
             print(name)
             print(arg)

In [58]: example4("Ram",AGE=30,PLACE="Chennai",DEPT="IT")

         Ram
         {'AGE': 30, 'PLACE': 'Chennai', 'DEPT': 'IT'}

In [ ]:
```

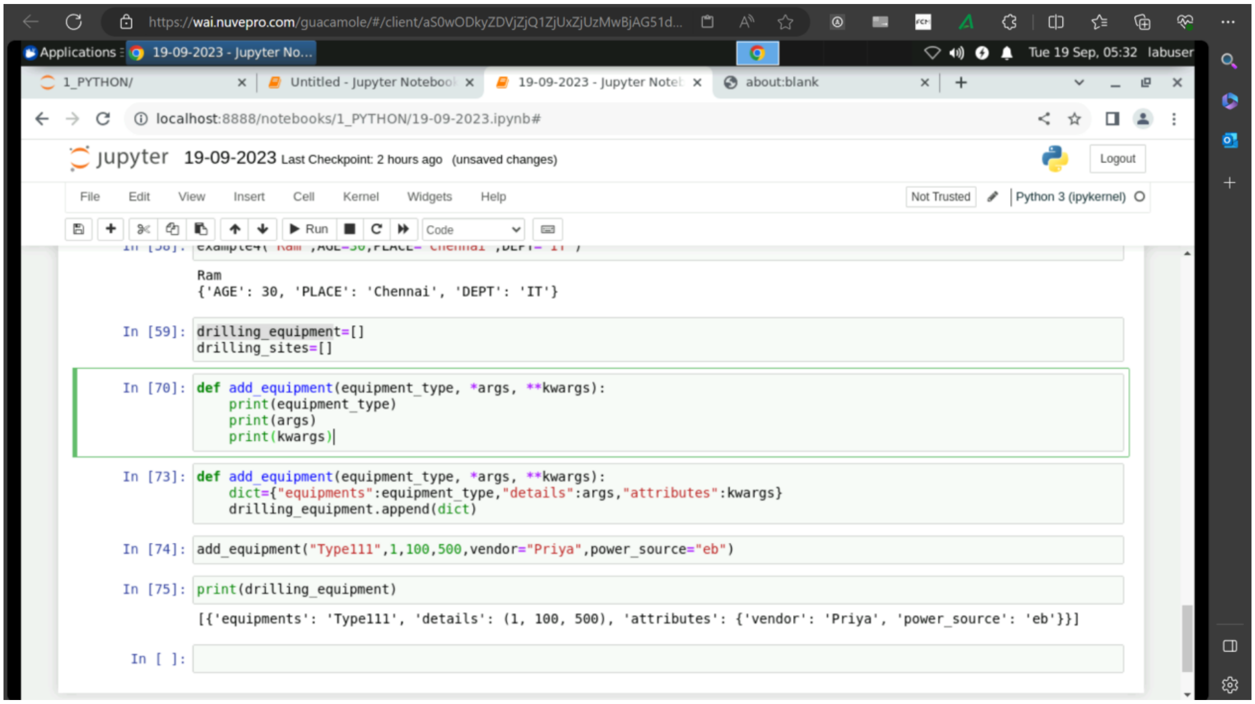
Activity:

Task: Oil and Gas Equipment and Drilling Site Management System

You are tasked with developing a Python program for an oil and gas company to manage their drilling equipment and drilling sites. The program should use *args and **kwargs to provide flexibility in adding and searching for equipment and sites. Here are the tasks you need to complete:
Create a Python script that defines empty lists for drilling equipment and drilling sites.

Implement a function add_equipment that takes the following parameters:

equipment_type (string): The type of equipment being added.
*args (tuple): Additional details about the equipment (e.g., model, power, capacity).
**kwargs (dictionary): Additional attributes of the equipment (e.g., vendor, power source).
The function should create a dictionary representing the equipment, including its type, details (from *args), and attributes (from **kwargs). Then, it should append this dictionary to the drilling_equipment list.



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```
In [58]: example4("Ram",AGE=30,PLACE="Chennai",DEPT="IT")

         Ram
         {'AGE': 30, 'PLACE': 'Chennai', 'DEPT': 'IT'}

In [59]: drilling_equipment=[]
         drilling_sites=[]

In [70]: def add_equipment(equipment_type, *args, **kwargs):
             print(equipment_type)
             print(args)
             print(kwargs)

In [73]: def add_equipment(equipment_type, *args, **kwargs):
             dict={"equipments":equipment_type,"details":args,"attributes":kwargs}
             drilling_equipment.append(dict)

In [74]: add_equipment("Type111",1,100,500,vendor="Priya",power_source="eb")

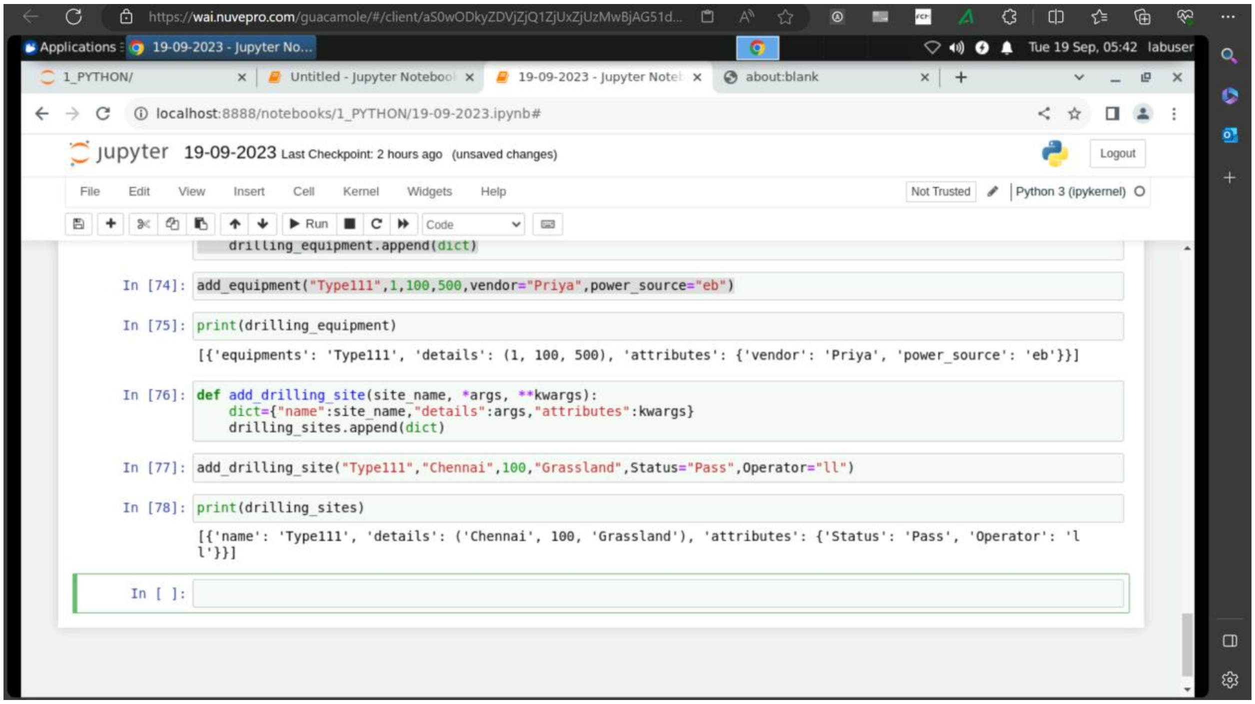
In [75]: print(drilling_equipment)

         [{'equipments': 'Type111', 'details': (1, 100, 500), 'attributes': {'vendor': 'Priya', 'power_source': 'eb'}}]

In [ ]:
```

Implement a function add_drilling_site with similar parameters:

site_name (string): The name of the drilling site being added.
*args (tuple): Additional details about the site (e.g., location, depth, terrain).
**kwargs (dictionary): Additional attributes of the site (e.g., status, operator).
The function should create a dictionary representing the site, including its name, details (from *args), and attributes (from **kwargs). Then, it should append this dictionary to the drilling_sites list.



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Code

```
    drilling_equipment.append(dict)

In [74]: add_equipment("Type111",1,100,500,vendor="Priya",power_source="eb")

In [75]: print(drilling_equipment)

         [{'equipments': 'Type111', 'details': (1, 100, 500), 'attributes': {'vendor': 'Priya', 'power_source': 'eb'}}]

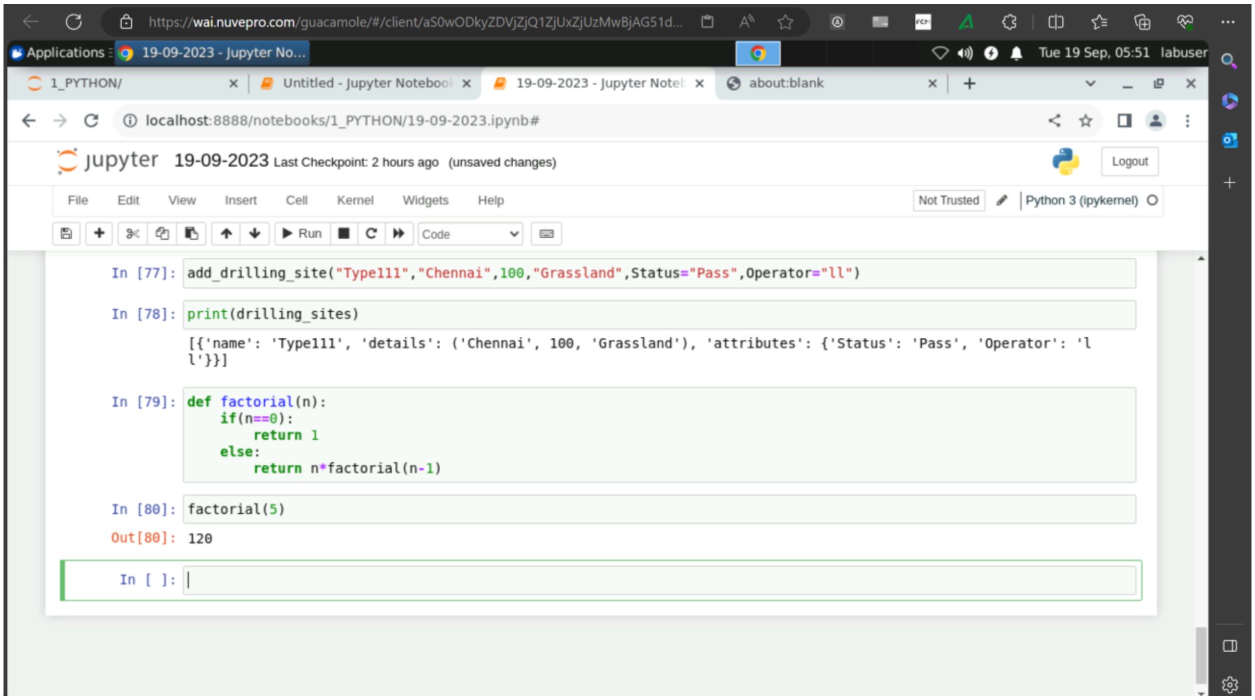
In [76]: def add_drilling_site(site_name, *args, **kwargs):
             dict={"name":site_name,"details":args,"attributes":kwargs}
             drilling_sites.append(dict)

In [77]: add_drilling_site("Type111","Chennai",100,"Grassland",Status="Pass",Operator="ll")

In [78]: print(drilling_sites)

         [{'name': 'Type111', 'details': ('Chennai', 100, 'Grassland'), 'attributes': {'Status': 'Pass', 'Operator': 'l
         l'}}]

In [ ]:
```



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```
In [77]: add_drilling_site("Type111","Chennai",100,"Grassland",Status="Pass",Operator="ll")

In [78]: print(drilling_sites)

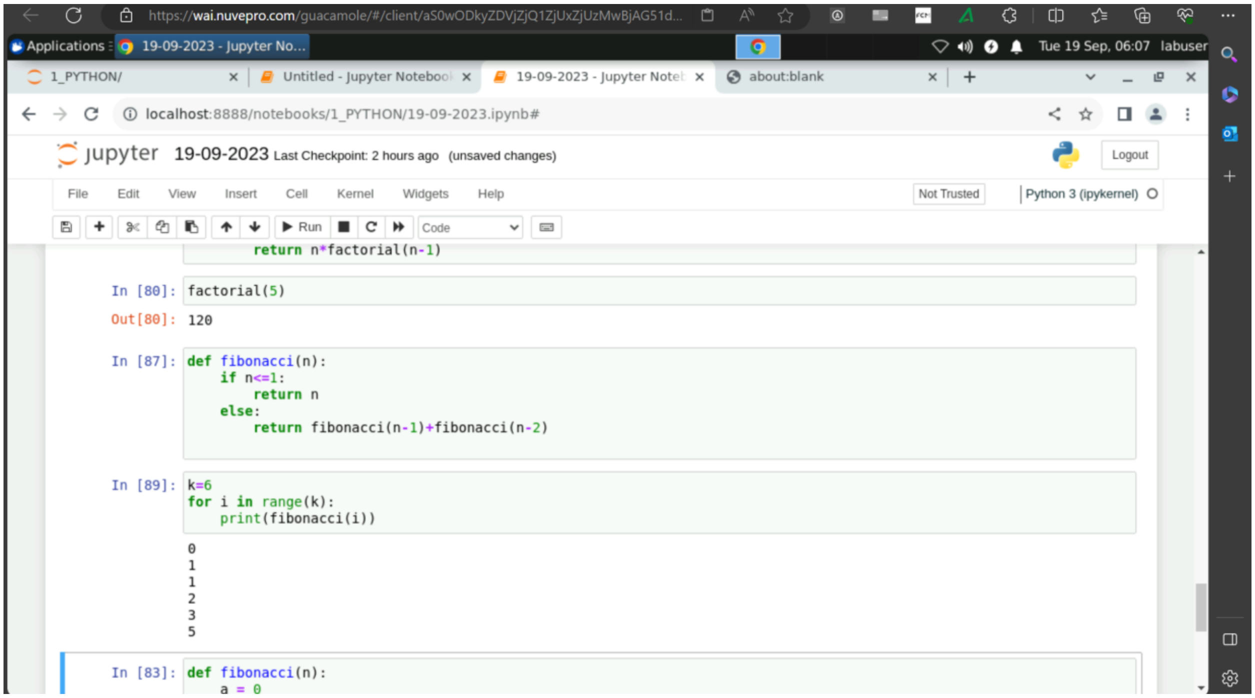
         [{'name': 'Type111', 'details': ('Chennai', 100, 'Grassland'), 'attributes': {'Status': 'Pass', 'Operator': 'l
         l'}}]

In [79]: def factorial(n):
             if(n==0):
                 return 1
             else:
                 return n*factorial(n-1)

In [80]: factorial(5)

Out[80]: 120

In [ ]:
```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```
            return n*factorial(n-1)

In [80]: factorial(5)

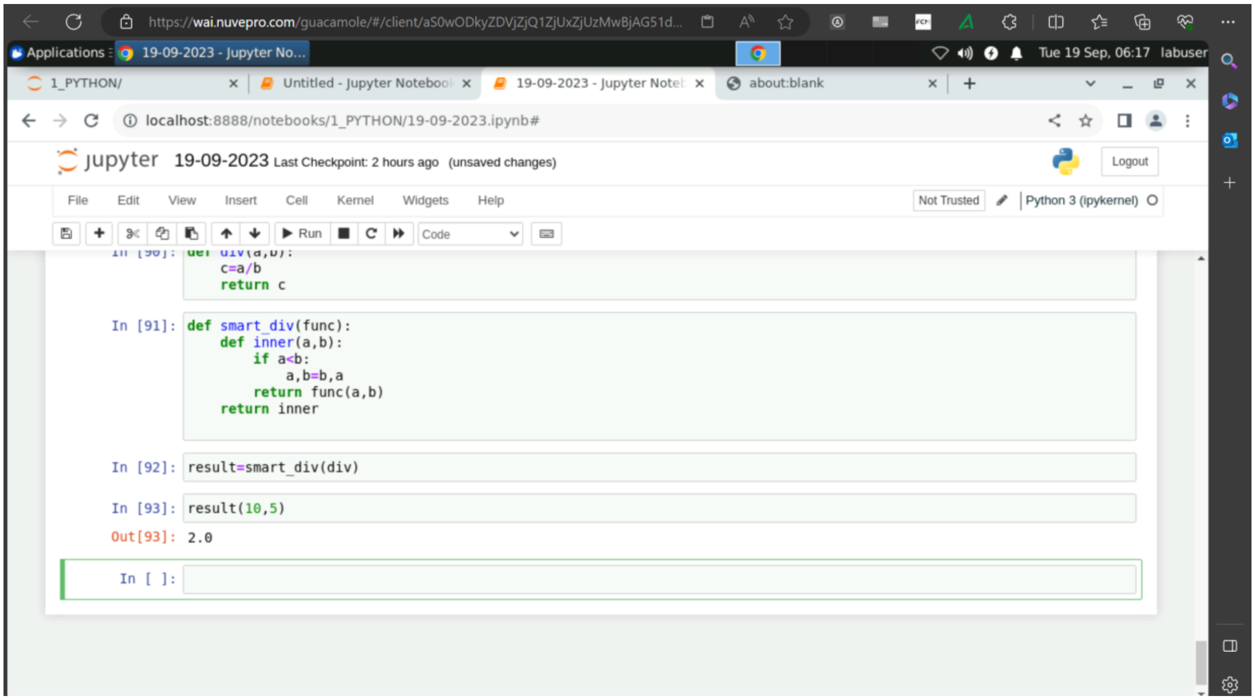
Out[80]: 120

In [87]: def fibonacci(n):
             if n<=1:
                 return n
             else:
                 return fibonacci(n-1)+fibonacci(n-2)

In [89]: k=6
         for i in range(k):
             print(fibonacci(i))

         0
         1
         1
         2
         3
         5

In [83]: def fibonacci(n):
             a = 0
```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Python 3 (ipykernel)
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```
In [90]: def div(a,b):
             c=a/b
             return c

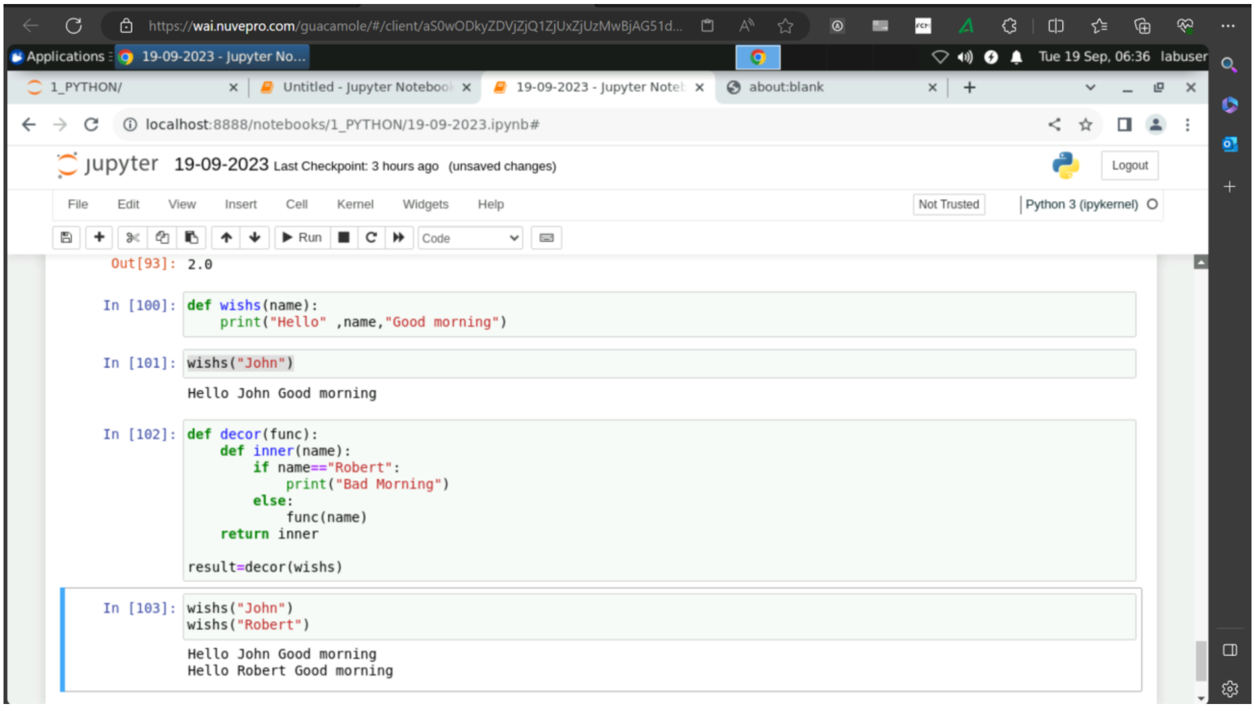
In [91]: def smart_div(func):
             def inner(a,b):
                 if a<b:
                     a,b=b,a
                 return func(a,b)
             return inner

In [92]: result=smart_div(div)

In [93]: result(10,5)

Out[93]: 2.0

In [ ]:
```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```
Out[93]: 2.0

In [100]: def wishs(name):
              print("Hello" ,name,"Good morning")

In [101]: wishs("John")

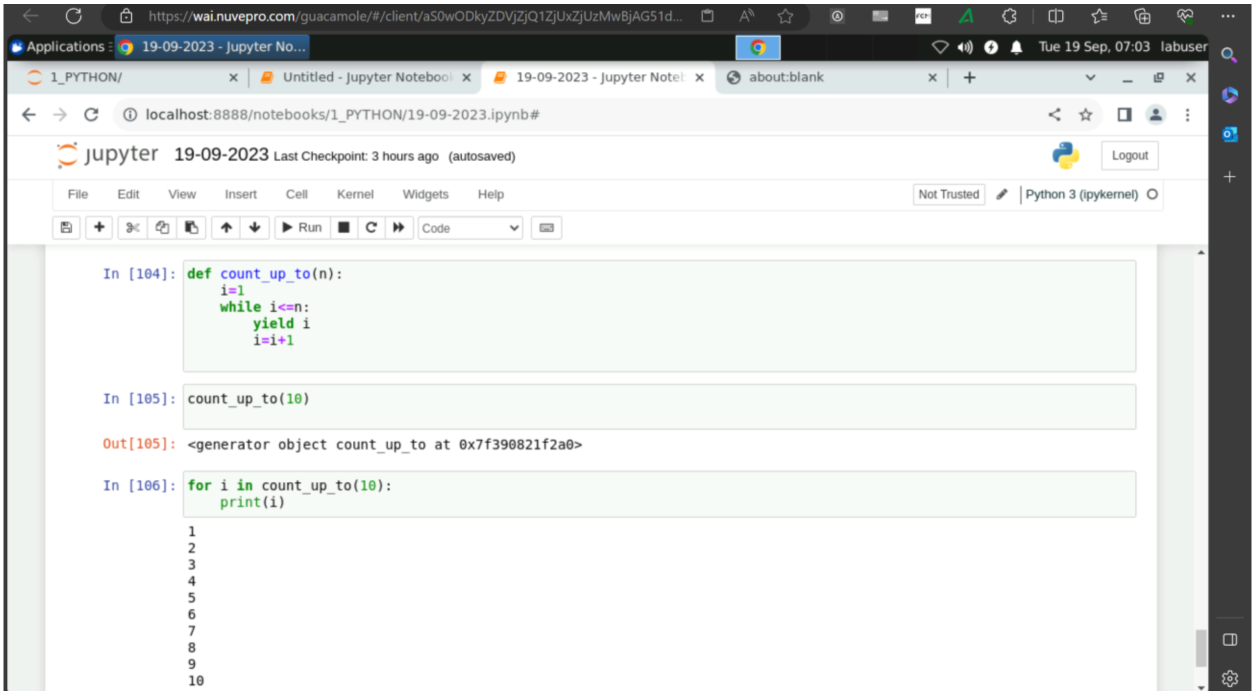
          Hello John Good morning

In [102]: def decor(func):
              def inner(name):
                  if name=="Robert":
                      print("Bad Morning")
                  else:
                      func(name)
              return inner

          result=decor(wishs)

In [103]: wishs("John")
          wishs("Robert")

          Hello John Good morning
          Hello Robert Good morning
```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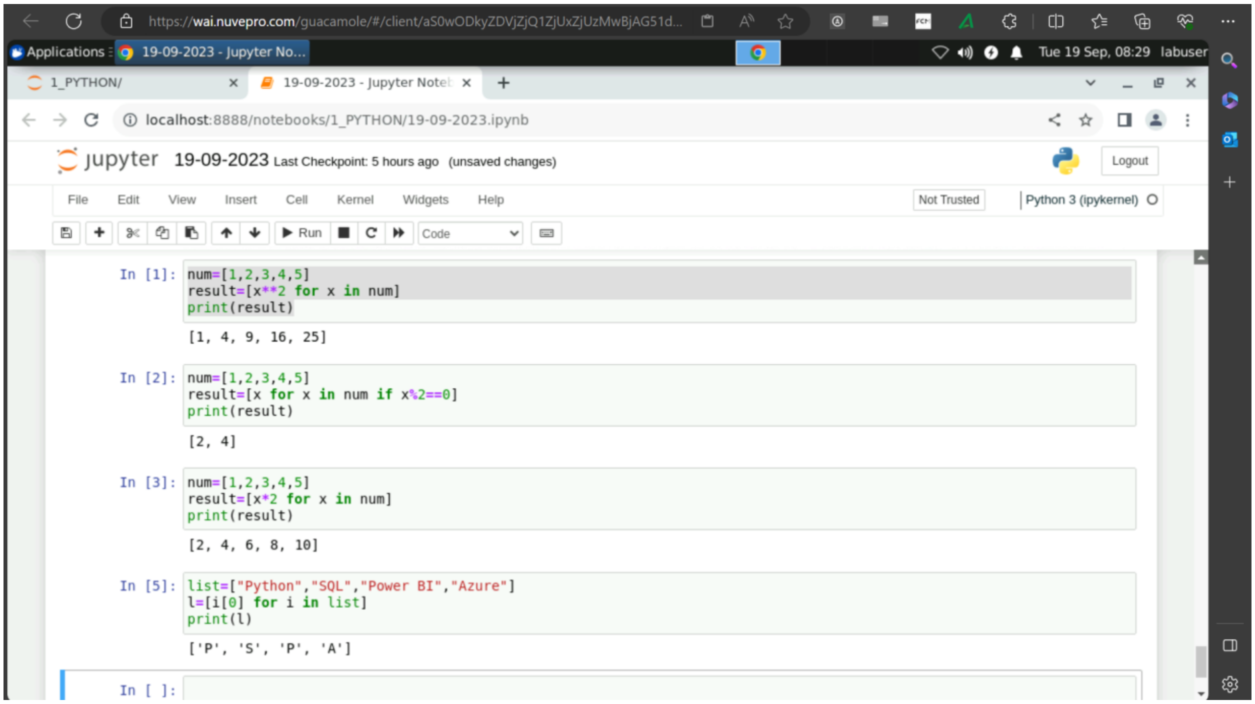
```
In [104]: def count_up_to(n):
              i=1
              while i<=n:
                  yield i
                  i=i+1

In [105]: count_up_to(10)

Out[105]: <generator object count_up_to at 0x7f390821f2a0>

In [106]: for i in count_up_to(10):
              print(i)

          1
          2
          3
          4
          5
          6
          7
          8
          9
          10
```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Python 3 (ipykernel)
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```
In [1]: num=[1,2,3,4,5]
        result=[x**2 for x in num]
        print(result)

        [1, 4, 9, 16, 25]

In [2]: num=[1,2,3,4,5]
        result=[x for x in num if x%2==0]
        print(result)

        [2, 4]

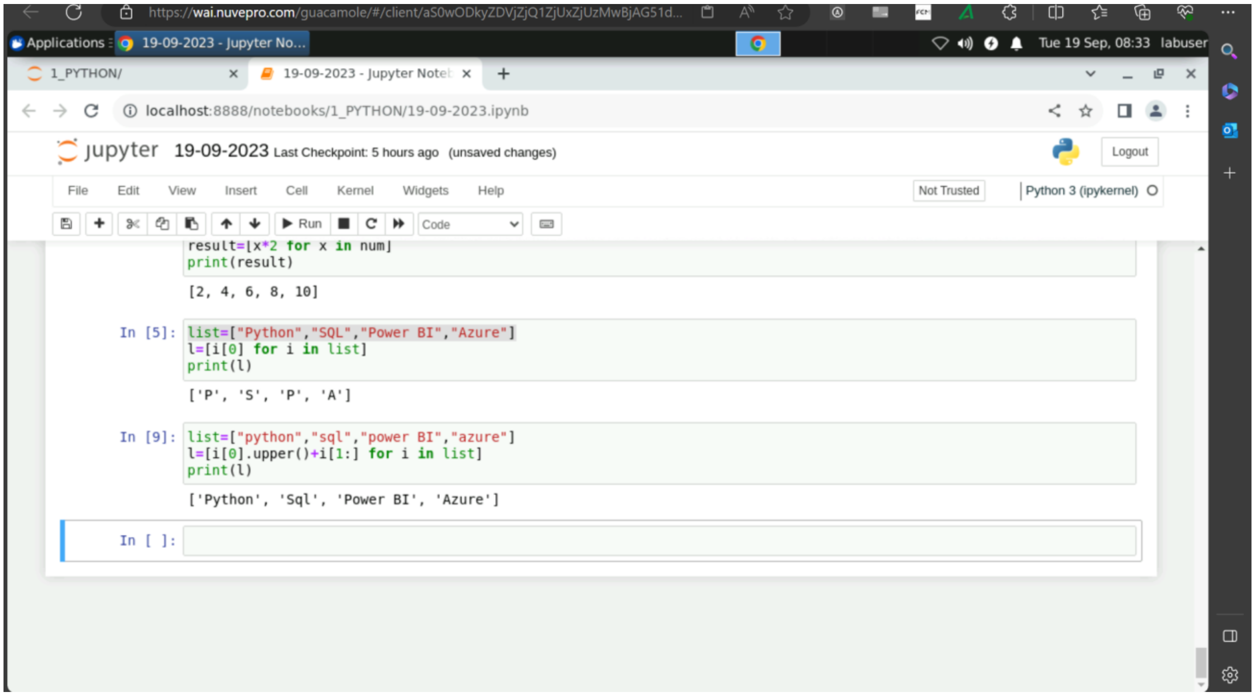
In [3]: num=[1,2,3,4,5]
        result=[x*2 for x in num]
        print(result)

        [2, 4, 6, 8, 10]

In [5]: list=["Python","SQL","Power BI","Azure"]
        l=[i[0] for i in list]
        print(l)

        ['P', 'S', 'P', 'A']

In [ ]:
```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```
        result=[x*2 for x in num]
        print(result)

        [2, 4, 6, 8, 10]

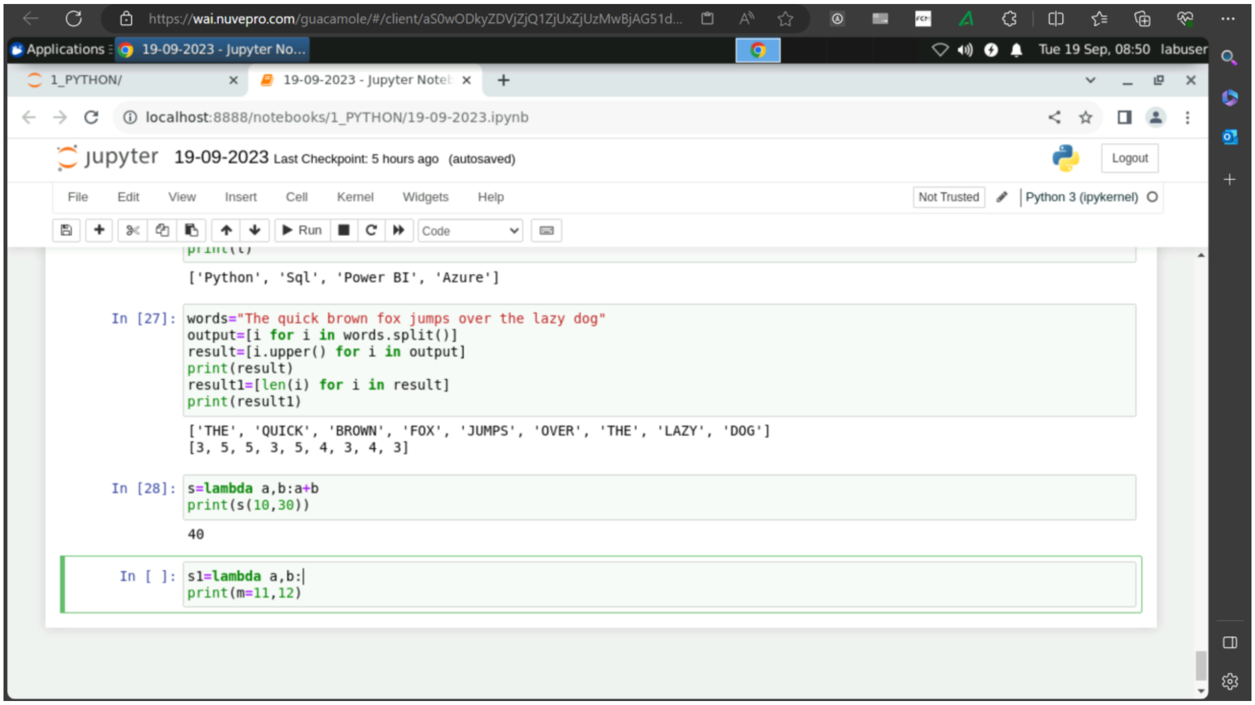
In [5]: list=["Python","SQL","Power BI","Azure"]
        l=[i[0] for i in list]
        print(l)

        ['P', 'S', 'P', 'A']

In [9]: list=["python","sql","power BI","azure"]
        l=[i[0].upper()+i[1:] for i in list]
        print(l)

        ['Python', 'Sql', 'Power BI', 'Azure']

In [ ]:
```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Python 3 (ipykernel)
Run
Code

```
print(l)
['Python', 'Sql', 'Power BI', 'Azure']

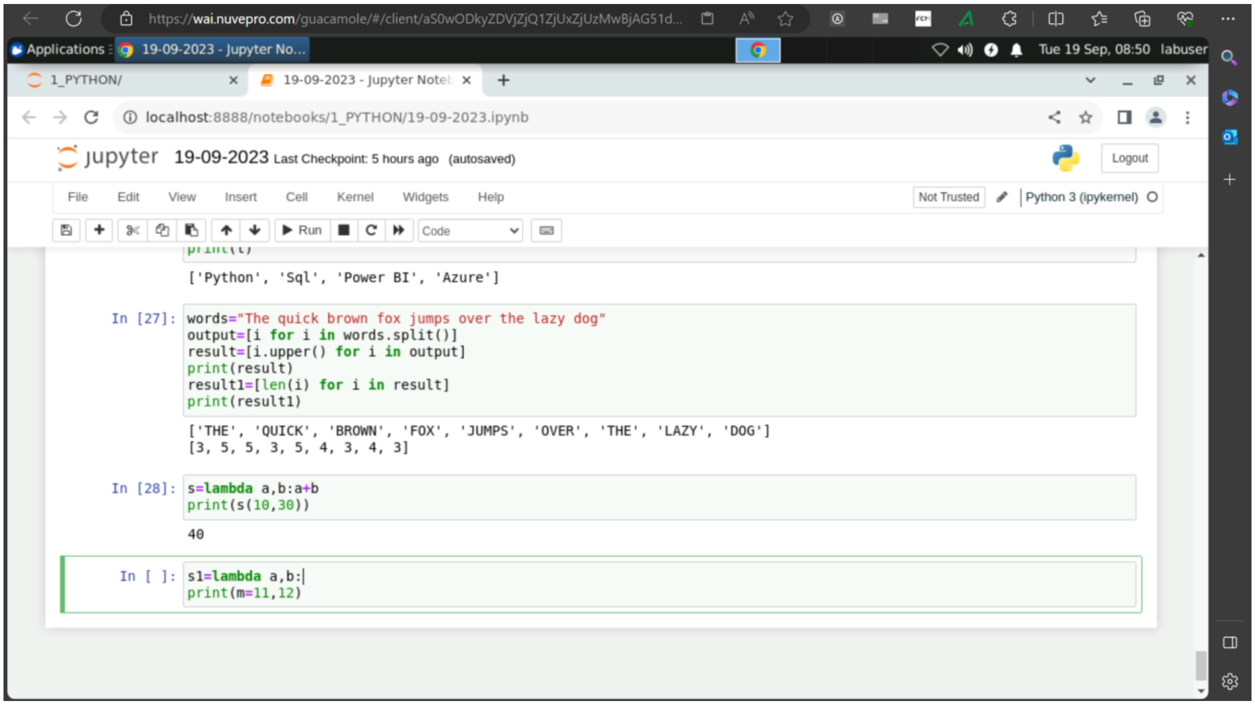
In [27]: words="The quick brown fox jumps over the lazy dog"
         output=[i for i in words.split()]
         result=[i.upper() for i in output]
         print(result)
         result1=[len(i) for i in result]
         print(result1)

         ['THE', 'QUICK', 'BROWN', 'FOX', 'JUMPS', 'OVER', 'THE', 'LAZY', 'DOG']
         [3, 5, 5, 3, 5, 4, 3, 4, 3]

In [28]: s=lambda a,b:a+b
         print(s(10,30))

         40

In [ ]:  s1=lambda a,b:
         print(m=11,12)
```



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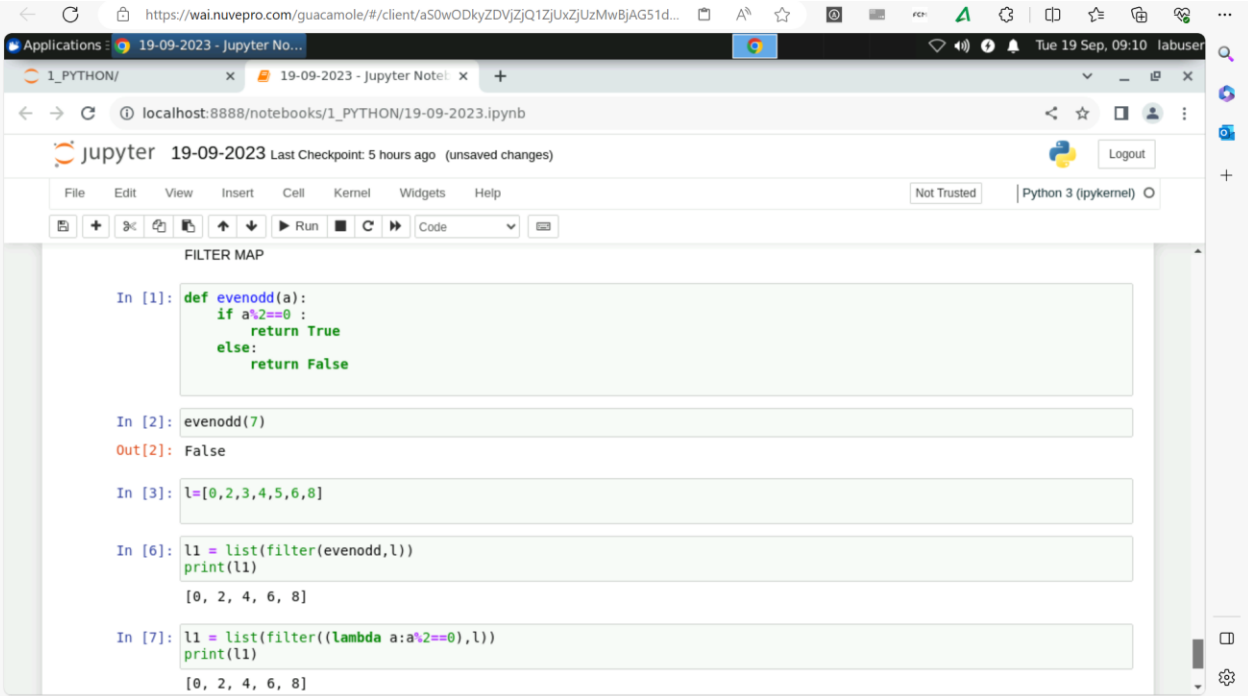
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FILTER MAP

```
In [1]: def evenodd(a):
            if a%2==0 :
                return True
            else:
                return False
```

```
In [2]: evenodd(7)
Out[2]: False
```

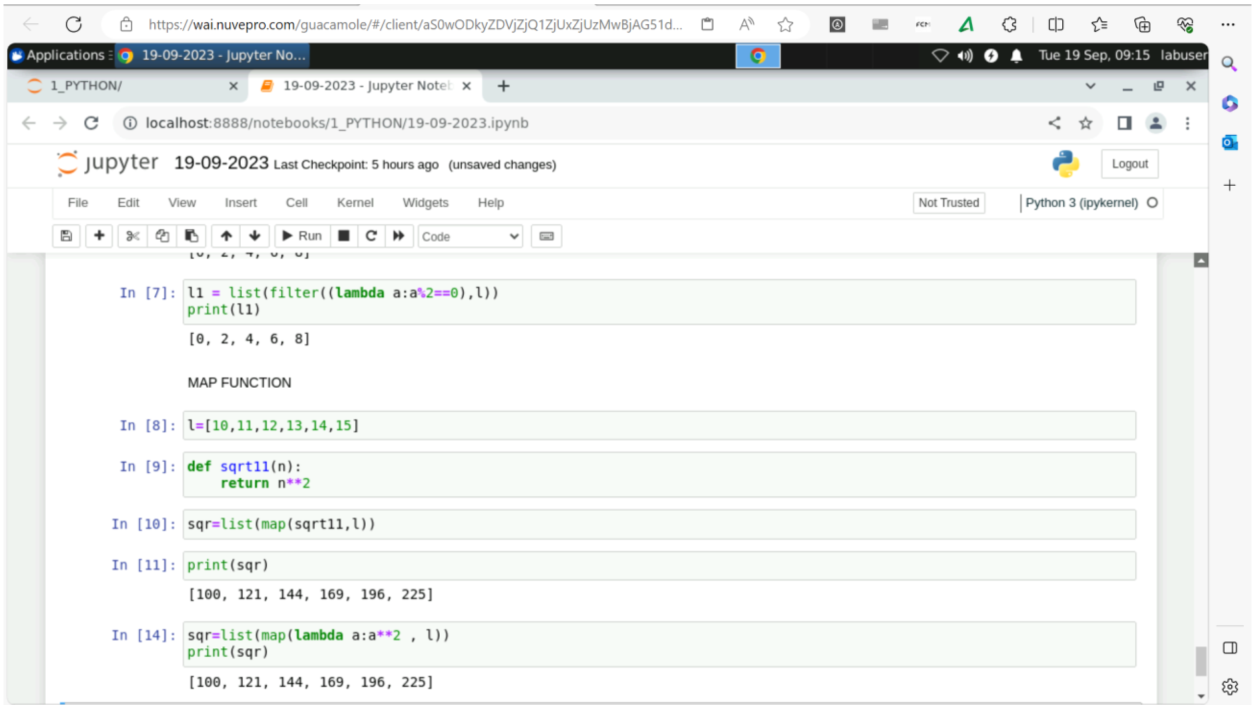
```
In [3]: l=[0,2,3,4,5,6,8]
```

```
In [6]: l1 = list(filter(evenodd,l))
        print(l1)

        [0, 2, 4, 6, 8]
```

```
In [7]: l1 = list(filter((lambda a:a%2==0),l))
        print(l1)

        [0, 2, 4, 6, 8]
```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```
In [7]: l1 = list(filter((lambda a:a%2==0),l))
        print(l1)

        [0, 2, 4, 6, 8]
```

MAP FUNCTION

```
In [8]: l=[10,11,12,13,14,15]
```

```
In [9]: def sqrt11(n):
            return n**2
```

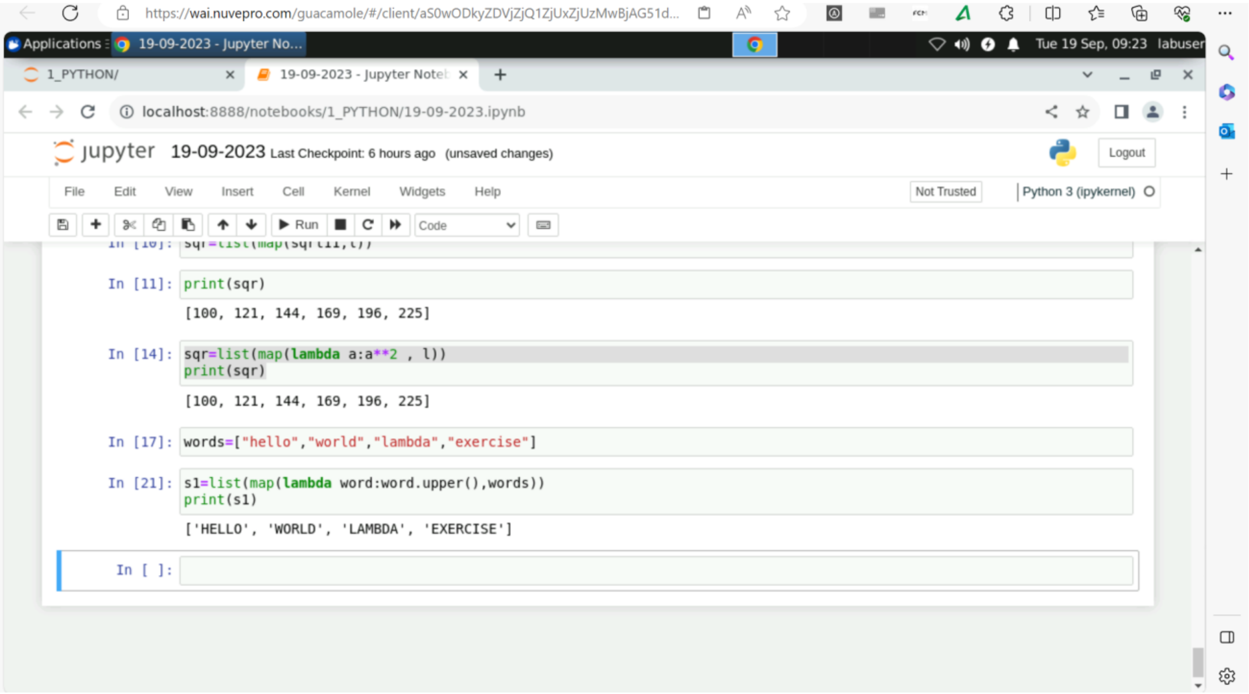
```
In [10]: sqr=list(map(sqrt11,l))
```

```
In [11]: print(sqr)

         [100, 121, 144, 169, 196, 225]
```

```
In [14]: sqr=list(map(lambda a:a**2 , l))
         print(sqr)

         [100, 121, 144, 169, 196, 225]
```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In [10]: sqr=list(map(sqrt11,l))

In [11]: print(sqr)

         [100, 121, 144, 169, 196, 225]

In [14]: sqr=list(map(lambda a:a**2 , l))
         print(sqr)

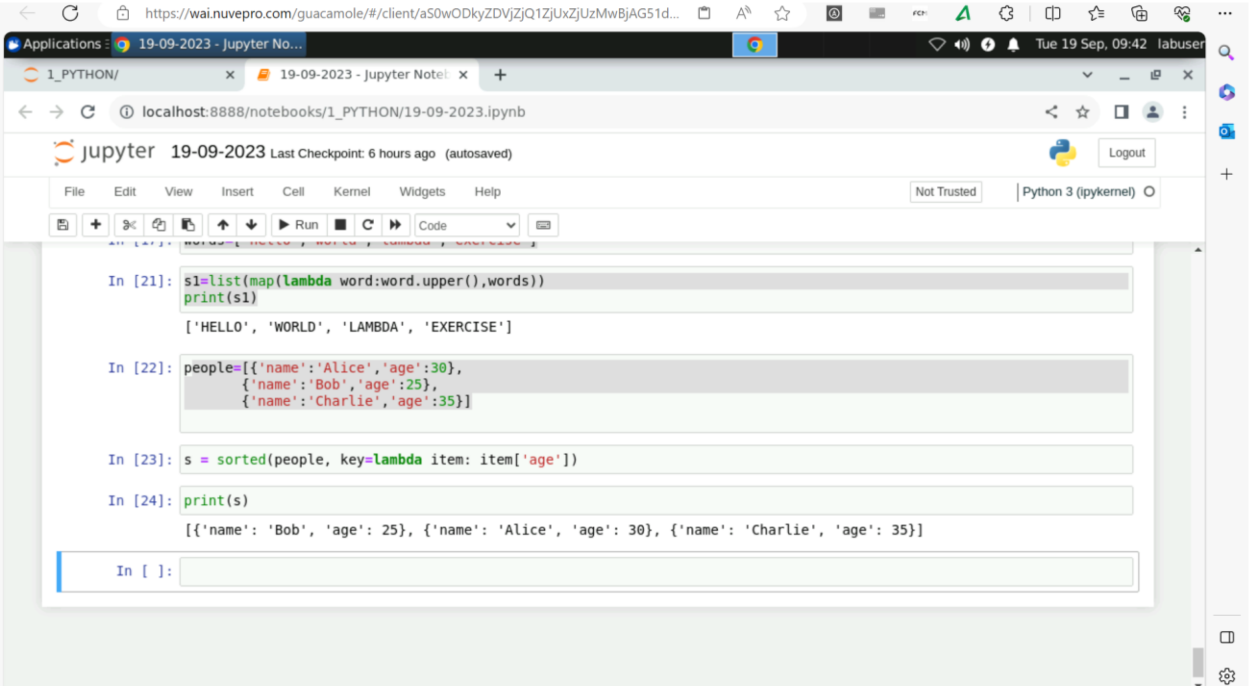
         [100, 121, 144, 169, 196, 225]

In [17]: words=["hello","world","lambda","exercise"]

In [21]: s1=list(map(lambda word:word.upper(),words))
         print(s1)

         ['HELLO', 'WORLD', 'LAMBDA', 'EXERCISE']

In [ ]:
```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Python 3 (ipykernel)
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Code

```
In [17]: words=["hello","world","lambda","exercise"]

In [21]: s1=list(map(lambda word:word.upper(),words))
         print(s1)

         ['HELLO', 'WORLD', 'LAMBDA', 'EXERCISE']

In [22]: people=[{'name':'Alice','age':30},
                {'name':'Bob','age':25},
                {'name':'Charlie','age':35}]

In [23]: s = sorted(people, key=lambda item: item['age'])

In [24]: print(s)

         [{'name': 'Bob', 'age': 25}, {'name': 'Alice', 'age': 30}, {'name': 'Charlie', 'age': 35}]

In [ ]:
```

Class:

```
class Computer:
        def config(self):
                print("i5,16Gb")
comp1=Computer()
comp1.config()
```