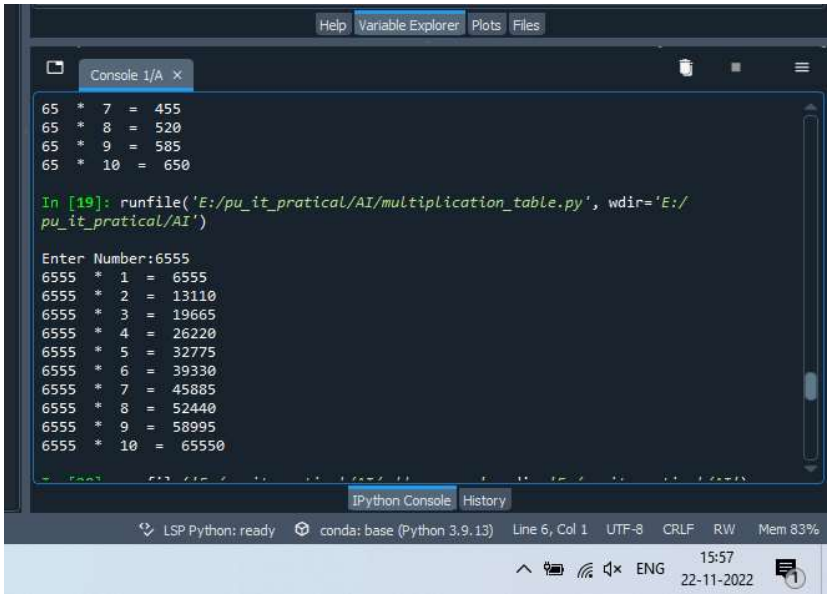
PRACTICAL-2

A)AIM: Write a python program to print the multiplication table for the given number.

Code:

```
x = int(input("Enter Number:"))
a=1
while(a<=10):
      print(x,' * ',a,' = ',a*x)
      a=a+1
```

Output:

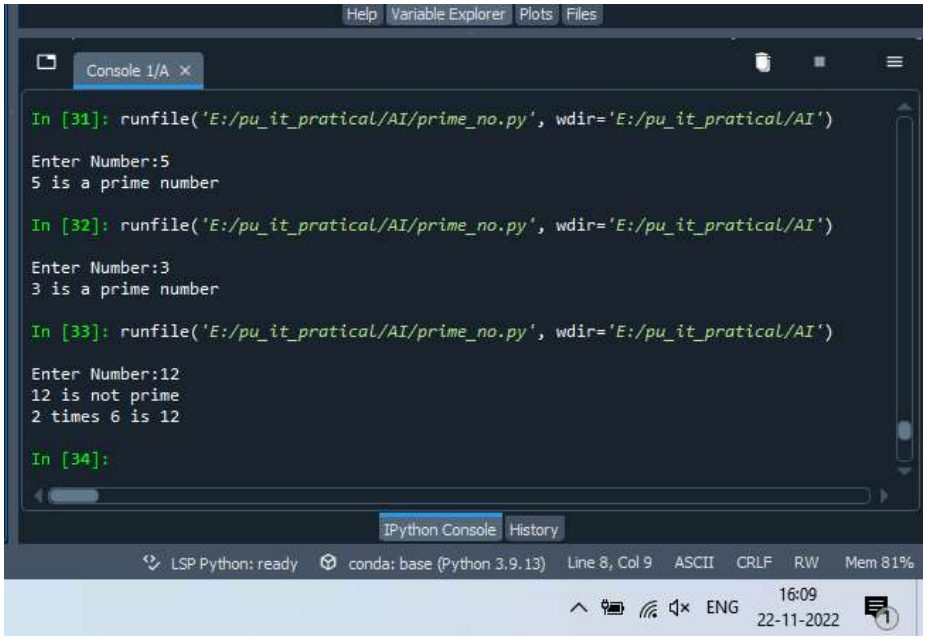


B)AIM: Write a python program to check whether the given number is prime or not.

Code:

```
x = int(input("Enter Number:"))
if x > 1:
   for n in range(2, x):
      if (x % n) == 0:
         print(x, "is not prime")
         print(n, "times", x // n, "is", x)
         break
   else:
      print(x, "is a prime number")
else:
      print(x, "is not prime number")
```

Output:

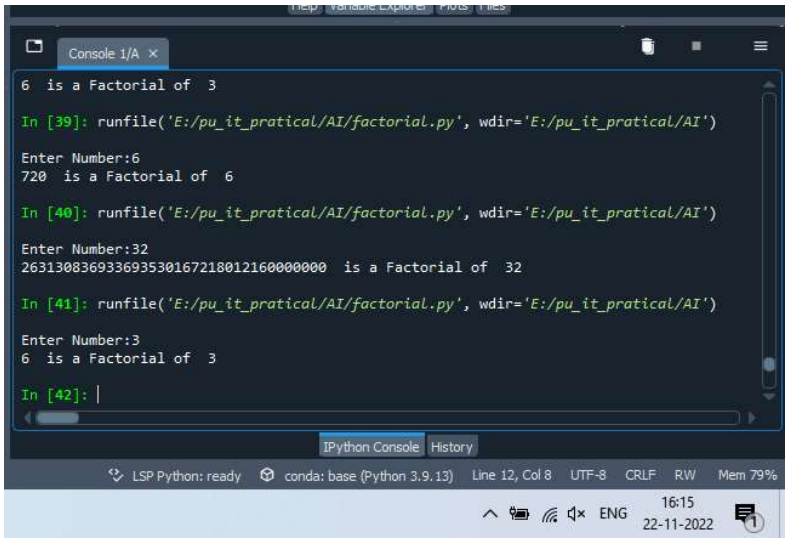


C) AIM: Write a python program to find factorial of the given number.

Code:

```
a = int(input("Enter Number:"))
p=1
i=a
while(a>1):
  p=p*a
  a=a-1
print(p," is a Factorial of ",i)
```

Output:



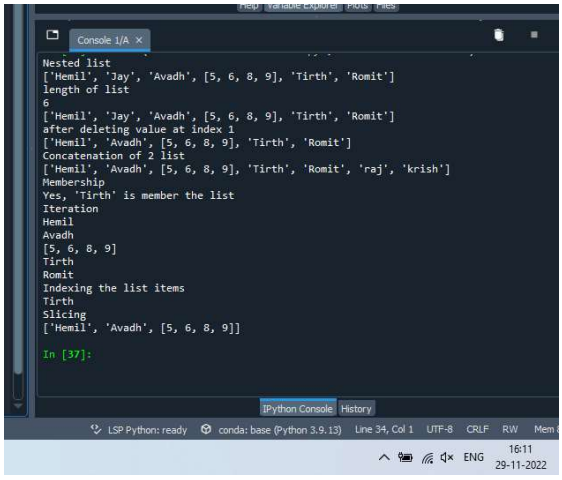
PRACTICAL-4

AIM: A) Write a python program to implement List operations (Nested List, Length, Concatenation, Membership, Iteration, Indexing and Slicing)?

Code:

```
list_name = ['Hemil','Jay','Avadh',[5,6,8,9],'Tirth','Romit']
print('Nested list')
print(list_name)                          #nested list
print('length of list')
print(len(list_name))                     #printing length of list
print(list_name)                          #printing original list
list_name.pop(1)                          #delete value at index 1
print('after deleting value at index 1')
print(list_name)                          #printing list after pop
list_items = ['raj','krish']
print('Concatenation of 2 list')
print(list_name+list_items)                          #Concatenation of 2 list
print('Membership')
if "Tirth" in list_name:
  print("Yes, 'Tirth' is member the list") # printing the membership of the list
print('Iteration')                        #Iteration
i = 0
while i < len(list_name):
  print(list_name[i])
  i = i + 1
print('Indexing the list items')          #indexing
print(list_name[3])
print('Slicing')                          #Slicing
print(list_name[0:3])
```

Output A:



B) Write a python program to implement List methods (Add, Append, Extend & Delete).

Code:

```
list_items=['Hemil', 'Jay', 'Avadh', [5, 6, 8, 9], 'Tirth', 'Romit']
print(list_items)
#insert
print('insert ronak in list')
list_items.insert(1,'ronak')
print(list_items)
#append
print('append list')
list_items_object = ['table','furniture']
list_items.append(list_items_object)
print(list_items)
#extend
print('Extend list')
list_items_object = ['table','furniture']
list_items.extend(list_items_object)
print(list_items)
#pop delete item in list
print('delete item in list')
list_items.pop(5)
print(list_items)
```

Output B: