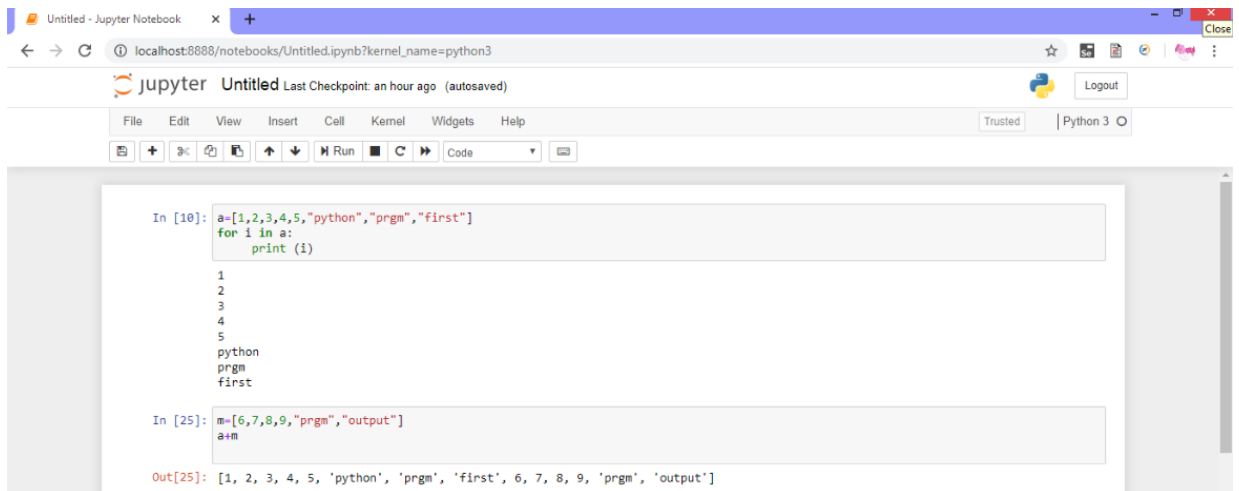**Task1>>1>>install jupyter note book and run first prgm**

```
a=[1,2,3,4,5,"python","prgm","first"]
m=[6,7,8,9,"prgm","output"]
for i in a:
    print (i)
a+m
```

screen shot

##Task>>>2) find number divisible by 7 and not multiple of 5

```
opt=[]
for i in range(2000,3200):
    if (i%7==0) and (i%5==0):
        opt.append(str(i))
print("numbers divisible by 7 and not multiple of 5 for range b/w 2000 to 3200>>>\n"
+','.join(opt))
```

output screen shot
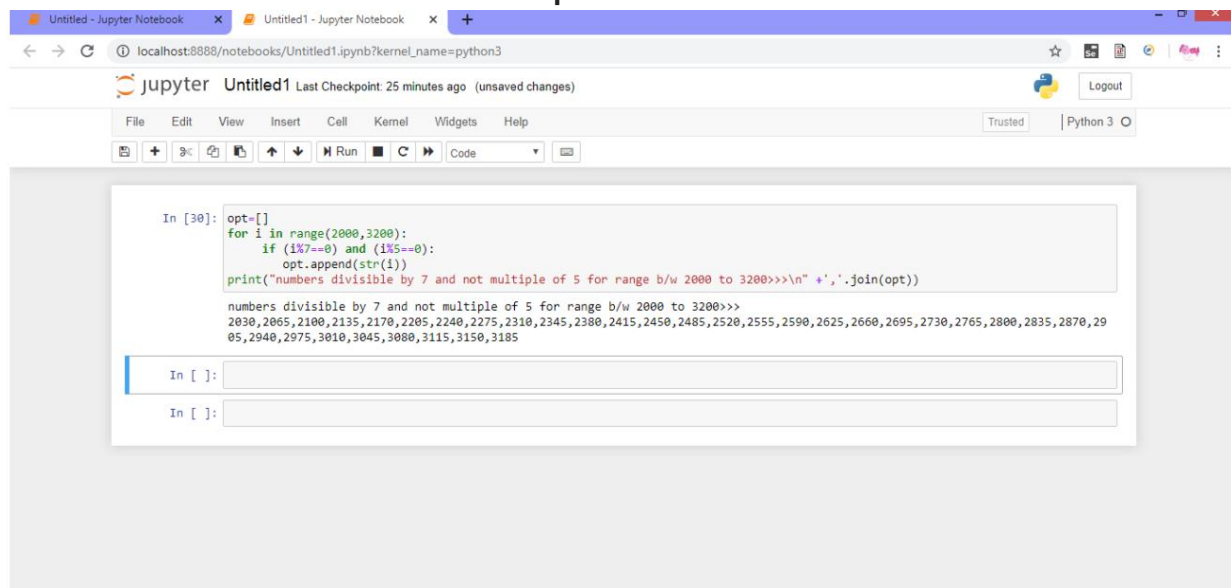
##task1>>3)prgm to accept the username and reverse the user first and last name

userfirstName=input("Please enter your first name:\t")
userlastName=input("Please enter you last name: \t")
revfstName=userfirstName[::-1]
revlstName=userlastName[::-1]
print("reversed user name \t:" +revlstName[::-1]+"\t"+revfstName[::-1])

------------- ------------------------------------output screen shot-----------------------

```
In [43]: userfirstName=input("Please enter your first name:\t")
         userlastName=input("Please enter you last name: \t")
         revfstName=userfirstName[::-1]
         revlstName=userlastName[::-1]
         print("reversed user name \t:" +revlstName[::-1]+"\t"+revfstName[::-1])

         Please enter your first name:   ashwin
         Please enter you last name:     kumar
         reversed user name      :kumar   ashwin

In [ ]:

In [ ]:
```

##task1>>4>>prgm to find volume of sphere

dia=input("enter the diameter value\t:")
print("volume of sphere for given diameter:\t"+ str(volume(dia)))

def volume(diameter):
   pi=3.1415926535897931
   r=diameter
  v=(4/3)*pi*float(r)*float(r)*float(r)

   return v
volume(dia)

-output--

```
In [29]: userinpt=input("enter the numbers with commas\t:")
         ##print("generated list from user input\t:"+ str(genlist(userinpt)))

         def genlist(userinpt):
             a=[]
             a=userinpt.split(",")
             return a

         genlist(userinpt)

         enter the numbers with commas   :6,78,90.67,9076,90
Out[29]: ['6', '78', '90.67', '9076', '90']

In [ ]:
```

##Task2>>1)accepts a sequences of comma-separated numbers and genera list

```python
userinpt=input("enter the numbers with commas\t:")
##print("generated list from user input\t:"+ str(genlist(userinpt)))
def genlist(userinpt):
    a=[]
    a=userinpt.split(",")
    return a

genlist(userinpt)
```

output

```
In [29]: userinpt=input("enter the numbers with commas\t:")
         ##print("generated list from user input\t:"+ str(genlist(userinpt)))

         def genlist(userinpt):
             a=[]
             a=userinpt.split(",")
             return a

         genlist(userinpt)

         enter the numbers with commas    :6,78,90.67,9076,90
Out[29]: ['6', '78', '90.67', '9076', '90']

In [ ]:

In [ ]:
```

##task2>>2)pattern program using for loop

```
for i in range(0,5):
    for j in range(0,i+1):
        print("*",end=")
    print("\r")

for i in range(5,0,-1):
    for j in range(0,i-1):
        print("*",end=")
    print("\r")
```

output

In [11]:
```
##task2>>>2)pattern pgm using for loop

for i in range(0,5):
    for j in range(0,i+1):
        print("*",end='')
    print("\r")

for i in range(5,0,-1):
    for j in range(0,i-1):
        print("*",end='')
    print("\r")
```
```
*
**
***
****
*****
****
***
**
*
```

##task2>>3)pgm to reverser the given word after accepting input from user

```
str=input("Enter the word:\t")
revWord=str[::-1]
print("reversed word:\t"+revWord)
```

Output screen shot

```
**
*
```

In [8]:
```
##task2>>3)pgm to reverser the given word after accepting input from user

str=input("Enter the word:\t")
revWord=str[::-1]
print("reversed word:\t"+revWord)
```
```
Enter the word: AcadGlid
reversed word:  dilGdacA
```

Task2>>>4)prgm to print given string in format specified in sample output

str="WE,THE PEOPLE OF INDIA,having solemnly resolved to constitue India into a SOVEREIGN,SOCIALIST,SECULAR,DEMOCRATIC REPUBLIC and to secure to all its citizens"
a=str[0:23]
b="\n"+"".join("   ")+str[23:84]+"".join("!")
c="\n"+"\t"+"   "+str[84:122]
d="\n"+"\t"+" "+str[121:200]
print("SAMPLE OUTPUT:\n"+a+b+c+d)
##print(""+str[0:23]+"\n"+"".join("   ")+str[23:83]+"".join("!")+"\n"+"\t"+"   "+str[83:120]+"\n"+"\t"+"
 "+str[120:200])

output screenshot


```
In [12]: ##task2>>4)pgm print the given string in given format

str="WE,THE PEOPLE OF INDIA,having solemnly resolved to constitue India into a SOVEREIGN,SOCIALIST,SECULAR,DEMOCRATIC REPUBLIC ar
a=str[0:23]
b="\n"+"".join("      ")+str[23:84]+"".join("!")
c="\n"+"\t"+"   "+str[84:122]
d="\n"+"\t"+"  "+str[121:200]
print("SAMPLE OUTPUT:\n"+a+b+c+d)
##print(""+str[0:23]+"\n"+"".join("      ")+str[23:83]+"".join("!")+"\n"+"\t"+"   "+str[83:120]+"\n"+"\t"+"  "+str[120:200])

SAMPLE OUTPUT:
WE,THE PEOPLE OF INDIA,
        having solemnly resolved to constitue India into a SOVEREIGN,!
            SOCIALIST,SECULAR,DEMOCRATIC REPUBLIC
            and to secure to all its citizens
```