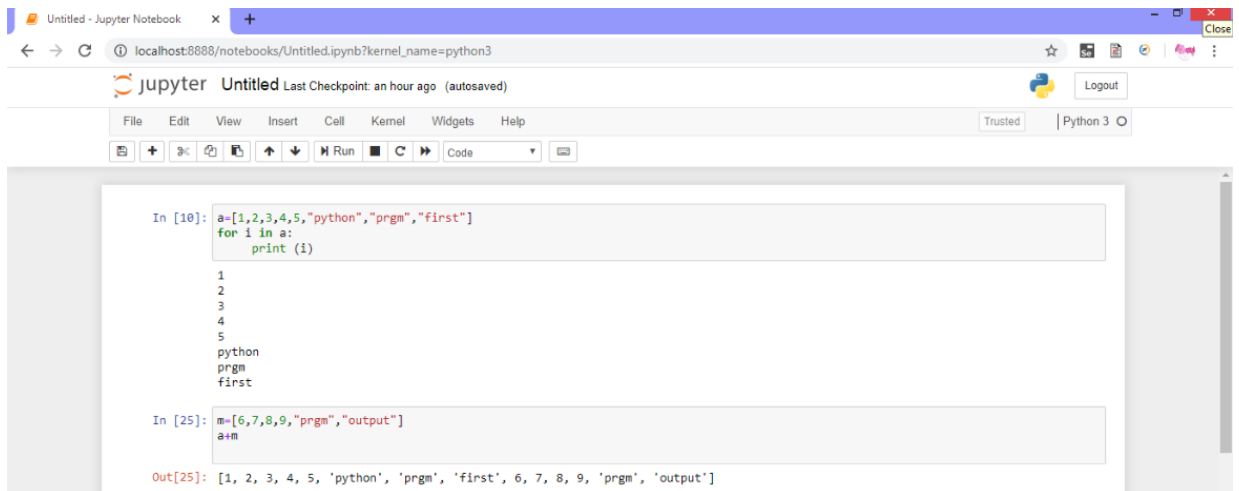


Task1>>1>>install jupyter note book and run first prgm

```
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



The screenshot shows a Jupyter Notebook interface in a web browser. The browser address bar shows `localhost:8888/notebooks/Untitled.ipynb?kernel_name=python3`. The Jupyter interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for file operations, running, and saving. The notebook contains two code cells. The first cell, labeled 'In [10]:', contains the following Python code:

```
a=[1,2,3,4,5,"python","prgm","first"]  
for i in a:  
    print (i)
```

The output of this cell is displayed below the code, showing the elements of the list `a` on separate lines: `1`, `2`, `3`, `4`, `5`, `python`, `prgm`, and `first`. The second cell, labeled 'In [25]:', contains the following Python code:

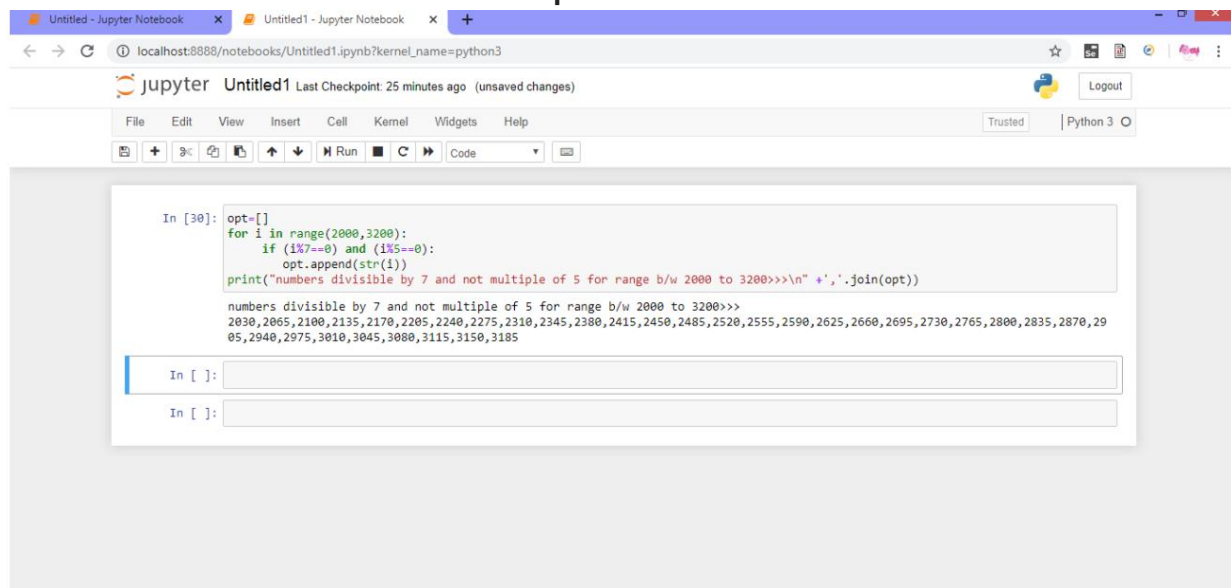
```
m=[6,7,8,9,"prgm","output"]  
a+m
```

The output of this cell is displayed below the code, showing the concatenation of the two lists: `Out[25]: [1, 2, 3, 4, 5, 'python', 'prgm', 'first', 6, 7, 8, 9, 'prgm', 'output']`.

##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]: userinput=input("enter the numbers with commas\t:")
##print("generated list from user input\t:" + str(genlist(userinput)))

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

genlist(userinput)

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

```
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 constitute 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 constitute India into a SOVEREIGN,SOCIALIST,SECULAR,DEMOCRATIC REPUBLIC and  
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 constitute India into a SOVEREIGN,  
        SOCIALIST,SECULAR,DEMOCRATIC REPUBLIC  
and to secure to all its citizens
```