

Code:

```
[112]: places=["MELBORN","TOKYO"," PINKCITY","BEIZING","SUNCITY"]
print(places)
print(countknow(places))
def countknow(places):
    length=len(places)
    for i in range(length):
        if places[i]<"7":
            return(places[i])
```

Output:

```
['MELBORN', 'TOKYO', ' PINKCITY', 'BEIZING', 'SUNCITY']
PINKCITY
```

Code:

```
[106]: list1=["First Name","Last Name","Reg No","University Name","District"]
list1.append("Program")
length=len(list1)
print(list1)

# Check if comsats exist or not
if "COMSATS" in list1:
    print("True")
else:
    print("False. COMSATS doesnot exist")

# Index of Reg NO
print("Index of reg no is:",list1.index("Reg No"))

#Output of list as required
list=["District","University Name","Reg No","Last Name","First Name"]
print(list)
```

Output:

```
['First Name', 'Last Name', 'Reg No', 'University Name', 'District', 'Program']
False. COMSATS doesnot exist
Index of reg no is: 2
['District', 'University Name', 'Reg No', 'Last Name', 'First Name']
```

Code:

```
[102]:  
    r=5  
    s=3  
    for i in range(r,25,1):  
        if(r<25):  
            r=r+s  
            s=r+3  
            print(s)  
        else:  
            print("End")
```

Output:

```
11  
22  
44  
End
```