1. Package that deals with dataframe is

numpy

dataframe

pandas

math

2. The data type of the following python object **'a'** is: a={23, 24, 25, 26, 27}

3. Variable ‘a’ is defined as  
**a = ‘gOOd moRning’**  
       Command to convert ‘a’ from ‘gOOd moRning’ to ‘Good Morning’ is:-

4. command used to add elements to a ***list***

**5. Using the list ‘Stationery’ answer the following questions**

Product = ['Pencil', 'Pen', 'Eraser', 'Pencil Box', 'Scale']

Price= [5, 10, 2, 20, 12]

Brand = ['Camlin', 'Rotomac', 'Nataraj', 'Camel', 'Apsara']

Stationery = [Product, Price, Brand]

1. command to add **“Notebook”** as the first element inside the first level of the list      **“Stationery”** is
2. Command to replace the element of *Brand*, **“Camel”** with **“Camlin”** inside the list is:-

6. The list *"Months"* is defined as:-  
**Months = ['Jan', 'Mar', 'June', 'Aug', 'June', 'Feb', 'Nov', 'Dec', 'June', 'Apr', 'May',     'June']**

Which command returns the number of occurrences of **‘June’**?

7. command to sort **'Ages'** in ascending order

Ages = [ ’20’, ‘26’, ‘56’, ‘54’, ‘32’, ‘28’, ‘23’, ‘99’, ‘87’, ‘10’, ‘65’, ‘88’, ‘66’, ‘48’, ‘42’, ‘27’, ‘33’, ‘38’,  ‘83’, ‘94’, ‘66’, ‘44’]

**8. Answer following questions using the information given below:**

 D = [‘MONDAY’, ‘TUESDAY’,  ‘WEDNESDAY’, ‘THURSDAY’, ‘FRIDAY’, ‘SATURDAY’, ‘SUNDAY’]

1. command to print **WEDNESDAY, THURSDAY** from the list *“D”* is
2. command used to reverse the above list *“****D****”*is:-

9. command to clear all the elements from a ***Set*** is:-

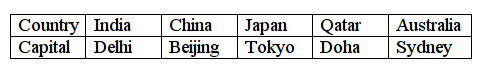
10. Answer the following questions using the information given below:        
 Mylist =[‘a’, ‘a’, ‘b’, ‘b’, ‘b’, ‘c’, ‘c’, ‘d’, ‘e’]

a. output of the code: **Mylist.index(‘d’)** is

b. output after you run the commands:

**Mylist.pop(0)  
 print(Mylist**

**11.** command to find the number of elements in the following list “**N**”  
**N = [24, 27, 29, 26, 25, 23, 20]**

**12. Create a dictionary ‘Country’ that maps the following countries to their capitals respectively.**  


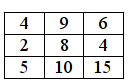
 The command to replace “**Sydney**” with “**Canberra**” is:-

**13.** Create the following sets X1 and X2 using the data provided below and answer the following questions

**C:\Users\cvr\Desktop\cs59A2Q17.png**

1. The output of **X1.intersection(X2)** will be
2. The output ofThe command **X1.symmetric\_difference(X2)**

**14.** Create the following **Matrix “Y”** in Python and answer the following questions

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1. The determinant of the matrix **“Y”** rounded off to the zeroth decimal place is
2. Inverse of matrix **“Y”** rounded off to second decimal place is
3. The column sum of **YT** is