## DS Lab Week #2

Angad Sandhu 190905494 10/03/2022

## **Solved Examples**

1)

2)

```
♣ 1.py
          ×
Week 2 > solved > ♦ 1.py > ...
     import pandas as pd
      import numpy as np
  3 s=pd.Series([3,9,-2,10,5])
  4 print(s.sum())
     print(s.min())
      print(s.max())
PROBLEMS OUTPUT DEBUG CONSOLE
                               TERMINAL
190905494@V310Z-000:~/Documents/DS$ python3 "./Week 2/solved/1.py"
25
-2
10
190905494@V310Z-000:~/Documents/DS$
```

```
×
2.py
Week 2 > solved > 💠 2.py > ...
  1 import pandas as pd
      data = [['Dinesh',10],['Nithya',12],['Raji',13]]
      df = pd.DataFrame(data,columns=['Name','Age'])
      print(df)
PROBLEMS OUTPUT DEBUG CONSOLE
                               TERMINAL
190905494@V310Z-000:~/Documents/DS$ python3 "./Week 2/solved/2.py"
     Name Age
            10
0 Dinesh
            12
1 Nithya
           13
     Raji
190905494@V310Z-000:~/Documents/DS$
```

```
3)
```

```
♣ 3.pv
          ×
Week 2 > solved > 💠 3.py > ...
      import pandas as pd
      data = {'Name':['Kavitha', 'Sudha', 'Raju','Vignesh'],'Age':[28,34,29,42]}
      df = pd.DataFrame(data, index=['rank1','rank2','rank3','rank4'])
      print(df)
PROBLEMS OUTPUT DEBUG CONSOLE
                               TERMINAL
190905494@V310Z-000:~/Documents/DS$ python3 "./Week 2/solved/3.py"
rankl Kavitha
                 28
         Sudha
                 34
rank2
                 29
          Raju
rank3
rank4 Vignesh
                 42
190905494@V310Z-000:~/Documents/DS$
```

4)

```
4.DV
      import numpy as np
      df1=pd.DataFrame({'A':pd.Timestamp('20130102'), 'B':np.array([3]*4,dtype='int32'),
      print(df1.shape)
      print(df1.dtypes)
      print(df1.head())
      print(df1.tail())
      print(df1.describe())
      print(df1.T)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
190905494@V310Z-000:~/Documents/DS$ python3 "./Week 2/solved/4.py"
     datetime64[ns]
              int32
           category
dtype: object
0 2013-01-02
                   Male
                 Female
Male
1 2013-01-02
  2013-01-02
3 2013-01-02
                 Female
0 2013-01-02
                   Male
1 2013-01-02
                Female
  2013-01-02
                   Male
3 2013-01-02
                 Female
         В
       4.0
count
       3.0
mean
       0.0
std
min
       3.0
25%
       3.0
50%
       3.0
75%
       3.0
max
       3.0
   2013-01-02 00:00:00 2013-01-02 00:00:00 2013-01-02 00:00:00 2013-01-02 00:00:00
В
                  Male
                                                            Male
                                                                                Female
                                     Female
190905494@V310Z-000:~/Documents/DS$
```

```
5)
```

```
5.py
Week 2 > solved > • 5.py > ...
      import pandas as pd
      import numpy as np
      dates=pd.date range('20130101', periods=100)
      df = pd.DataFrame(np.random.randn(100,4), index=dates, columns=list('ABCD'))
      print(df.head())
      df.tail()
      print(df.index)
      print(df.columns)
      print(df.T)
      #Sorting by Axis
      print(df.sort index(axis=1, ascending=False))
      print(df.sort values(by='B'))
      print(df[0:3]) #which slice first 3 records (rows)
      #Slicing with index name
      print(df['20130105':'20130110'])
      #Slicing with row and column index (like 2D Matrix)
      print(df.iloc[0])# will fetch entire 1 st row
      print(df.iloc[0,:2])# will fetch 1 st row, first 2 columns
      print(df.iloc[0,0])# will fetch 1 st row, 1 st column element (single element)
        #Selecting a single column
        print(df['A'])# which yields a Series
       #Selecting more than one column
 42
       print(df[['A','B']])# entire 2 columns
 44
       print(df[['A','B']][:5])# first 5 records
        print(df.loc['20130101':'20130105',['A','B']][:5])# first 5 records
```

```
190905494@V310Z-000:~/Documents/DS$ python3 "./Week 2/solved/5.py"
                                                                   Α
                                                                                                                                      C
                                                                                                                                                                          D
                                         0.878642 0.511388 -0.876408 1.338585
 2013-01-01
 2013-01-02 1.695924 -0.478135 -0.399319 0.220659
 2013-01-03 0.234318 -0.004401 0.252214 -1.439636
 2013-01-04 -0.130358 -0.361391 0.405051 0.659826
 2013-01-05 1.406443 1.955448 -0.429377 -1.821807
'2013-01-04',
                                                                                                                                                                                                     '2013-01-08',
                                                      '2013-01-29',
                                                                                                     '2013-01-30',
                                                                                                                                                    '2013-01-31',
                                                                                                                                                                                                      '2013-02-01'
                                                                                                   '2013-02-03', '2013-02-04',
                                                      '2013-02-02',
                                                                                                                                                                                                     '2013-02-05'
                                                                                                    '2013-02-07',
                                                      '2013-02-06',
                                                                                                                                                      '2013-02-08',
                                                   '2013-02-06', '2013-02-07', '2013-02-08', '2013-02-09', '2013-02-10', '2013-02-11', '2013-02-12', '2013-02-13', '2013-02-14', '2013-02-15', '2013-02-16', '2013-02-17', '2013-02-18', '2013-02-19', '2013-02-20', '2013-02-21', '2013-02-22', '2013-02-23', '2013-02-24', '2013-02-25', '2013-02-26', '2013-02-27', '2013-02-28', '2013-03-01', '2013-03-02', '2013-03-03', '2013-03-04', '2013-03-05', '2013-03-06', '2013-03-07', '2013-03-08', '2013-03-09', '2013-03-11', '2013-03-12', '2013-03-13', '2013-03-14', '2013-03-15', '2013-03-16', '2013-03-17', '2013-03-18', '2013-03-19', '2013-03-20', '2013-03-21', '2013-03-22', '2013-03-23', '2013-03-28', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2013-03-29', '2
                                                                                                                                                                                                     '2013-02-09'
                                                      '2013-03-22',
'2013-03-26',
                                                                                                     '2013-03-27',
                                                                                                                                                      '2013-03-28',
                                                                                                                                                                                                     '2013-03-29'
                                                     '2013-03-30', '2013-03-31', '2013-04-01', '2013-04-02', '2013-04-03', '2013-04-06', '2013-04-07', '2013-04-08', '2013-04-09', '2013-04-10'],
                                                 dtype='datetime64[ns]', freq='D')
 Index(['A', 'B', 'C', 'D'], dtype='object')
```

```
2013-01-01 2013-01-02 2013-01-03 2013-01-04 2013-01-05 2013-01-06 ... 2013-04-05 2013-04-06 2013-04-07 2013-04-08 2013-04-09 2013-04-10 A 0.878642 1.695924 0.234318 -0.130358 1.406443 0.454844 ... 1.234119 0.692092 0.125653 0.526677 1.468849 -0.352407 B 0.511388 -0.478135 -0.004401 -0.361391 1.955448 -0.491199 ... 0.885869 -1.827626 0.378323 -0.440210 0.204422 0.591777 C -0.876408 -0.399319 0.252214 0.405051 -0.429377 0.155589 ... 1.405954 0.159889 -0.622464 0.496574 0.49856 2.150665 D 1.338585 0.220659 -1.439636 0.659826 -1.821807 -1.582683 ... -0.698958 -2.236643 -0.521101 0.674986 0.099590 -0.234479 [4 rows x 100 columns]
```

```
D
2013-01-01 1.338585 -0.876408 0.511388
                                          0.878642
2013-01-02 0.220659 -0.399319 -0.478135
                                          1.695924
2013-01-03 -1.439636  0.252214 -0.004401  0.234318
2013-01-04 0.659826 0.405051 -0.361391 -0.130358
2013-01-05 -1.821807 -0.429377 1.955448
                                         1.406443
2013-04-06 -2.236643 0.159889 -1.827626
                                         0.692092
2013-04-07 -0.521101 -0.622464 0.378323
                                          0.125653
2013-04-08 0.674986
                     0.496574 -0.440210
                                          0.526677
2013-04-09 0.099590 0.483866 0.204442
                                          1.468849
2013-04-10 -0.234479 2.150665 0.591777 -0.352407
[100 rows x 4 columns]
                   Α
                             В
                                       C
2013-03-11 -1.310714 -2.790471
                                1.271921 0.080402
2013-02-11 -0.200811 -2.547877 0.420849
                                          1.284503
2013-03-01 0.195212 -2.398179 -1.636601 -1.133836
2013-04-01 1.692357 -2.008763 -0.255291 -2.076145
2013-01-21 -0.499943 -1.989480 -1.123403 0.907677
2013-01-07 -0.788440
                     1.784208 -0.764476
                                         0.386308
2013-01-05 1.406443
                     1.955448 -0.429377 -1.821807
2013-03-31 -0.511341 2.016282 1.271057 0.139842
2013-03-08 -0.669768 2.252251 -0.191580 -0.328402
2013-02-22 -1.620948 2.854501 0.364292 1.918277
[100 rows x 4 columns]
                             В
                                       C
2013-01-01 0.878642
                     0.511388 -0.876408 1.338585
2013-01-02 1.695924 -0.478135 -0.399319 0.220659
2013-01-03 0.234318 -0.004401 0.252214 -1.439636
                             В
                                      C
                                                 D
                   Α
                     1.955448 -0.429377 -1.821807
2013-01-05 1.406443
2013-01-06 0.454844 -0.491199 0.155589 -1.582683
2013-01-07 -0.788440 1.784208 -0.764476 0.386308
2013-01-08 -0.566260 -0.855400 1.625325 -0.673740
                     0.120493 -0.579097 -0.016288
2013-01-09 -1.026797
2013-01-10 1.539483 0.838291 -0.141311 -0.036544
```

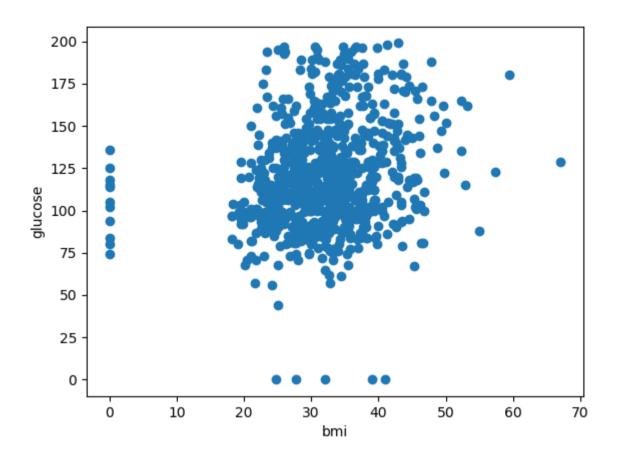
```
В
     0.511388
C
    -0.876408
    1.338585
D
Name: 2013-01-01 00:00:00, dtype: float64
     0.878642
В
     0.511388
Name: 2013-01-01 00:00:00, dtype: float64
0.8786419672316345
2013-01-01
            0.878642
2013-01-02
             1.695924
2013-01-03
            0.234318
2013-01-04
           -0.130358
2013-01-05
            1.406443
2013-04-06
            0.692092
2013-04-07
            0.125653
2013-04-08
            0.526677
2013-04-09
             1.468849
2013-04-10
            -0.352407
Freq: D, Name: A, Length: 100, dtype: float64
2013-01-01 0.878642 0.511388
2013-01-02 1.695924 -0.478135
2013-01-03 0.234318 -0.004401
2013-01-04 -0.130358 -0.361391
2013-01-05 1.406443 1.955448
           0.692092 -1.827626
2013-04-06
2013-04-07 0.125653 0.378323
2013-04-08 0.526677 -0.440210
2013-04-09 1.468849 0.204442
2013-04-10 -0.352407 0.591777
[100 rows x 2 columns]
                  Α
                            В
2013-01-01 0.878642 0.511388
2013-01-02 1.695924 -0.478135
2013-01-03 0.234318 -0.004401
2013-01-04 -0.130358 -0.361391
2013-01-05 1.406443 1.955448
                  Α
2013-01-01 0.878642 0.511388
2013-01-02 1.695924 -0.478135
2013-01-03 0.234318 -0.004401
2013-01-04 -0.130358 -0.361391
2013-01-05 1.406443 1.955448
1989854946V3187-888 -
```

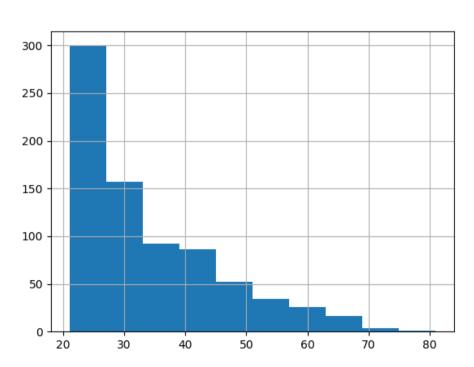
```
🕏 6.ру
          ×
Week 2 > solved > ♥ 6.py > ...
      import pandas as pd
      import numpy as np
      dates = pd.date range('20130101', periods=6)
      df = pd.DataFrame(np.random.randn(6,4), index=dates, columns=list('ABCD'))
      print(df.head())
      df[df.A > 0]
      print(df.head())
      df['F'] = ['Male', 'Female', 'Female', 'Male', 'Female']
      print(df.head())
      df.loc[:, 'D'] = np.array([5] * len(df))
      print(df.head())
PROBLEMS OUTPUT DEBUG CONSOLE
                              TERMINAL
190905494@V310Z-000:~/Documents/DS$ python3 "./Week 2/solved/6.py"
                             В
                                      C
                                                D
2013-01-01 -0.280170 -0.310025 0.330124 -0.726977
2013-01-02 -1.192533 -0.139549 0.074752 0.180551
2013-01-03 -1.084672 0.817844 -0.035182 -0.243125
                     1.225356 -0.699322
2013-01-04 -0.809722
                                         1.566975
2013-01-05 -0.121602
                     0.591932
                               0.291120
                                          0.985379
                             В
                                                D
2013-01-01 -0.280170 -0.310025 0.330124 -0.726977
2013-01-02 -1.192533 -0.139549 0.074752 0.180551
2013-01-03 -1.084672 0.817844 -0.035182 -0.243125
                     1.225356 -0.699322
2013-01-04 -0.809722
                                         1.566975
2013-01-05 -0.121602 0.591932 0.291120 0.985379
                            В
                                                D
                                      C
2013-01-01 -0.280170 -0.310025
                               0.330124 -0.726977
                                                     Male
2013-01-02 -1.192533 -0.139549
                               0.074752
                                         0.180551
2013-01-03 -1.084672 0.817844 -0.035182 -0.243125
                                                    Female
2013-01-04 -0.809722
                     1.225356 -0.699322
                                          1.566975
                                                     Male
2013-01-05 -0.121602 0.591932
                               0.291120
                                         0.985379
                                                    Female
                                                  F
                             В
                                         D
2013-01-01 -0.280170 -0.310025
                                0.330124
                                         5
                                               Male
2013-01-02 -1.192533 -0.139549
                               0.074752
                                         5
                                            Female
2013-01-03 -1.084672 0.817844 -0.035182
                                            Female
                     1.225356 -0.699322
2013-01-04 -0.809722
                                               Male
2013-01-05 -0.121602 0.591932 0.291120 5
                                            Female
190905494@V310Z-000:~/Documents/DS$
```

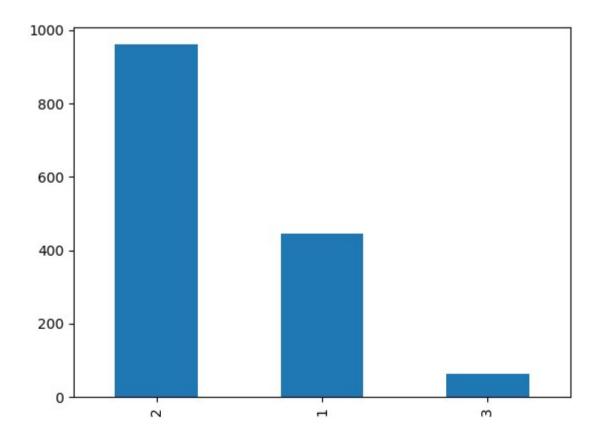
```
🕏 7.ру
           ×
Week 2 > solved > 💠 7.py > ...
  1 import pandas as pd
       import numpy as np
       dates = pd.date range('20130101', periods=6)
      df = pd.DataFrame(np.random.randn(6,4), index=dates, columns=list('ABCD'))
       print(df.head())
       df.drop ('A', axis =1, inplace=True)
       print(df.head())
       df.drop(pd.Timestamp('20130105'), axis=0, inplace=True)
       print(df.head())
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
190905494@V310Z-000:~/Documents/DS$ python3 "./Week 2/solved/7.py"
                               В
                                         C
2013-01-01 -0.516408 3.352175 -1.395452 -0.457403
2013-01-02 0.246527 -2.477502 -0.195379 0.213647
2013-01-05 2.214543 0.786697
                                 0.901635 -0.318831
                    В
                               C
                                         D
2013-01-01 3.352175 -1.395452 -0.457403
2013-01-02 -2.477502 -0.195379 0.213647
2013-01-03 0.465224 1.747698 -0.472331
2013-01-04 -0.544753 0.196862 -0.411392
2013-01-05 0.786697 0.901635 -0.318831
                    В
2013-01-01 3.352175 -1.395452 -0.457403
2013-01-02 -2.477502 -0.195379 0.213647
2013-01-03 0.465224 1.747698 -0.472331
2013-01-04 -0.544753 0.196862 -0.411392
2013-01-06 -0.647557 -1.109314 0.31<u>1</u>687
190905494@V310Z-000:~/Documents/DS$ [
```

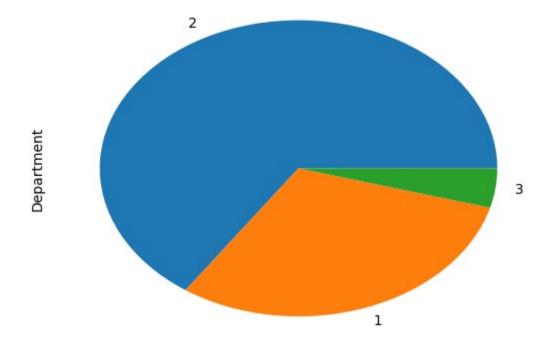
```
🕏 8.ру
                         ×
Week 2 > solved > 🥏 8.py > ...
      import pandas as pd
      import numpy as np
      dates = pd.date range('20130101', periods=6)
      df = pd.DataFrame(np.random.randn(6,4), index=dates, columns=list('ABCD'))
      print(df.head())
      df.drop ('A', axis =1, inplace=True)
      print(df.head())
      df.drop(pd.Timestamp('20130105'), axis=0, inplace=True)
      print(df.head())
PROBLEMS OUTPUT DEBUG CONSOLE
                               TERMINAL
190905494@V310Z-000:~/Documents/DS$ python3 "./Week 2/solved/8.py"
                             В
                                        C
2013-01-01 0.153351 1.642949 0.433448
                                          2.661325
2013-01-02 0.082682 -1.001823 -0.827226 -1.512859
2013-01-03 -0.655797 -1.122934 -0.523091 0.182749
2013-01-04 0.264847 -0.226741 0.794333 0.540779
2013-01-05 -0.011691 0.070230 1.399643 -0.036218
                   В
                             C
                                       D
2013-01-01 1.642949 0.433448 2.661325
2013-01-02 -1.001823 -0.827226 -1.512859
2013-01-03 -1.122934 -0.523091
2013-01-04 -0.226741 0.794333
                                0.182749
0.540779
2013-01-05 0.070230 1.399643 -0.036218
                   R
2013-01-01 1.642949 0.433448 2.661325
2013-01-02 -1.001823 -0.827226 -1.512859
2013-01-03 -1.122934 -0.523091 0.182749
2013-01-04 -0.226741 0.794333 0.540779
2013-01-06 -0.867098 0.509459 1.476027
190905494@V310Z-000:~/Documents/DS$
```

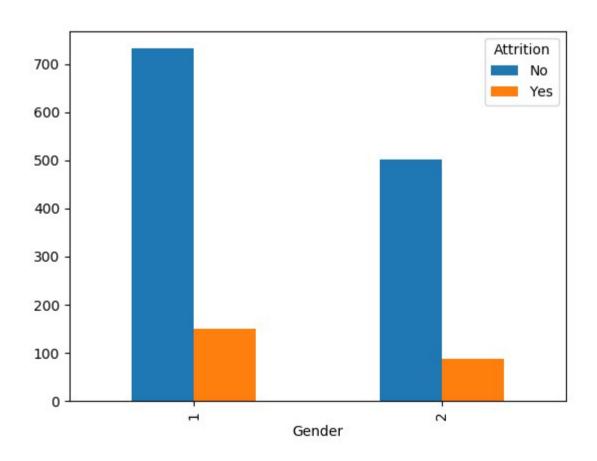
```
🕏 9.ру
Week 2 > solved > ♥ 9.py > ...
     import pandas as pd
      import numpy as np
      import matplotlib.pyplot as plt
      df = pd.read csv("prima indians diabetes for Week2.csv", header=None)
      print(df.head())
      print(df.tail())
      df.columns = ['preg', 'glu', 'bp', 'sft', 'ins', 'bmi', 'dpf', 'age', 'class']
     plt.scatter(df['bmi'], df['glu'])
      plt.xlabel('bmi')
      plt.ylabel('glucose')
      plt.show()
     df['age'].hist()
     plt.show()
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
190905494@V310Z-000:~/Documents/DS/Week 2/solved$ python3 9.py
   0
          2
               3
                          5
                                       8
   6 148 72
                     0
                        33.6 0.627
                                    50
               35
       85
          66 29
                    0
                       26.6 0.351 31
  8 183
          64
               0
                    0
                       23.3 0.672
                                    32
          66 23
40 35
                  94 28.1 0.167
168 43.1 2.288
3
   1
      89
                                    21
                                        0
4 0 137
                                    33
      Θ
               2
763
     10 101 76
                 48
                     180 32.9 0.171
                                       63
                                           0
764
        122
             70
                       0
                          36.8 0.340
                                       27
      5
                                           0
765
         121
                  23
                      112
                          26.2 0.245
                                       30
                          30.1
766
         126
              60
                  0
                       0
                                0.349
                        0
                                           0
767
          93
              70
                          30.4 0.315
                                       23
```











## **Exersize Questions**

Q1)

Q2)

Q4)

```
🗣 q4.ру
          ×
Week 2 > ♦ q4.py > Ø num1
      num1 = float(input("Enter first number: "))
      num2 = float(input("Enter second number: "))
      num3 = float(input("Enter third number: "))
      if (num1 >= num2) and (num1 >= num3):
         largest = num1
      elif (num2 >= num1) and (num2 >= num3):
         largest = num2
      else:
         largest = num3
 11
      print("The largest number is {}" .format(largest))
 12
 13
PROBLEMS
         OUTPUT DEBUG CONSOLE
                               TERMINAL
190905494@V310Z-000:~/Documents/DS/Week 2$ python3 q4.py
Enter first number: 56
Enter second number: 42
Enter third number: 21
The largest number is 56.0
190905494@V310Z-000:~/Documents/DS/Week 2$
```

```
q5.py
        ×
Week 2 > 💠 q5.py > 😥 counter
      counter = 0
      while counter < 3:
           print("Inside loop")
           counter += 1
      else:
           print("Inside else")
PROBLEMS OUTPUT DEBUG CONSOLE
                                TERMINAL
190905494@V310Z-000:~/Documents/DS/Week 2$ python3 q5.py
Inside loop
Inside loop
Inside loop
Inside else
190905494@V310Z-000:~/Documents/DS/Week 2$
```

```
🥏 дб.ру
          ×
Week 2 > 💠 q6.py > 😥 my_list
      my list = ['p', 'r', 'o', 'b', 'e']
       print(my list[0]) # p
      print(my_list[-1])
      print(my list[1:3])
       odd = [2, 4, 6, 8]
      print(odd)
       odd[1:4] = [3, 5, 7]
       print(odd)
 11
 12
      odd.append(7)
 13
      print(odd)
 14
 15
       odd.extend([9, 11, 13])
       print(odd)
 17
      del my_list[2]
      my_list = ['p', 'r', 'o', 'b', 'l', 'e', 'm']
 21
      print('p' in my list)
 23
      print('a' in my_list)
 24
       print('c' not in my list)
PROBLEMS OUTPUT DEBUG CONSOLE
                                TERMINAL
190905494@V310Z-000:~/Documents/DS/Week 2$ python3 q6.py
p
 ['r', 'o']
[2, 4, 6, 8]
[2, 3, 5, 7]
[2, 3, 5, 7, 7]
[2, 3, 5, 7, 7, 9, 11, 13]
True
False
True
```

Q8)

```
## Q8.py ×

Week 2 > # Q8.py > ...

1     tup = (12, 7, 38, 56, 78)

2     lst = [i for i in tup if i%2==0]

3     print("new tuple is : ", tuple(lst))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

190905494@V310Z-000:~/Documents/DS/Week 2$ python3 q8.py new tuple is : (12, 38, 56, 78)
190905494@V310Z-000:~/Documents/DS/Week 2$

190905494@V310Z-000:~/Documents/DS/Week 2$
```

Q9)

Q10)

Q11)

Q12)

```
# q12.py X

Week2 >  q12.py > ...

1     lst = [12, 7, 38, 56, 78, 5, 3]

2     l = []

3     for i in lst:

4         if i%2!=0 : l.append(i)

5         print("New List : ", l)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

190905494@V310Z-000:~/Documents/DS/Week 2$ python3 q12.py
New List : [7, 5, 3]
190905494@V310Z-000:~/Documents/DS/Week 2$
```

```
q13.py
          ×
Week 2 > 🏺 q13.py > ...
       import pandas as pd
       import numpy as np
       student = {
           "Name" : "Angad",
           "Height" : "185cm",
           "Qualification" : "B.Tech CSE",
       }
       add = ["Gurgaon"] # age list
       df = pd.DataFrame(student, index=[0])
 11
       df['Address'] = add
 12
 13
       print(df)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
190905494@V310Z-000:~/Documents/DS/Week 2$ python3 q13.py
    Name Height Qualification Address
Angad 185cm B.Tech CSE Gurgaon
0 Angad 185cm
190905494@V310Z-000:~/Documents/DS/Week 2$
```

Q14)

```
×
q14.py
Week 2 > 💠 q14.py > ...
       import pandas as pd
       student = {
           "Name" : "Angad",
           "Height" : "185cm",
           "Qualification" : "B. Tech CSE",
       df = pd.DataFrame(student, index=[0])
       df.insert(3, "Address", "Gurgaon", allow duplicates = False)
       print(df)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
190905494@V310Z-000:~/Documents/DS/Week 2$ python3 q14.py
    Name Height Qualification Address
Angad 185cm B.Tech CSE Gurgaon
0 Angad 185cm
190905494@V310Z-000:~/Documents/DS/Week 2$
```