Q 5.1: Creating a dataset

```
import pandas as pd
import numpy as np
data={
     'Name': ['Sajeeb','Alamin','Naima','Riaz','Badsa','Badsa Wife','Put
    'Age': [34,56,76,45,87,46,46,76,23,45],
    'Gender': ['M','M','F','M','M','F','F','M','M'],
    'Marks': [87,88,76,66,56,78,76,78,90,56]
df=pd.DataFrame(data)
x = df.to csv('information.csv', index=False)
Q 5.1: Loading a dataset
data=pd.read csv('information.csv')
print(data)
            Name Age Gender
                            Marks
    0
          Sajeeb
                  34
                         Μ
                              87
    1
          Alamin
                 56
                         Μ
                              88
    2
           Naima
                  76
                         F
                              76
    3
            Riaz
                  45
                         Μ
                              66
    4
           Badsa
                  87
                         Μ
                              56
    5
      Badsa Wife
                  46
                         Μ
                              78
    6
                         F
                              76
            Puti
                  46
    7
                         F
                  76
                              78
          Montri
    8
           Gopal
                  23
                         Μ
                              90
    9
            Kobi
                  45
                              56
```

Q 5.2: Finding Mean, Median, Mode, Variance and Standard Deviation

```
mean = np.mean(data['Marks'])
median = np.median(data['Marks'])
mode_value = data['Marks'].mode()[0]
variance = np.var(data['Marks'])
variance = round(variance,2)
std_dev = np.std(data['Marks'])
std_dev= round(std_dev,2)
# # Paint the page 11-2
```

1 of 2 10/29/2023, 1:32 AM

```
# # Print the results
print('Mean:', mean)
print('Median:', median)
print('Mode:', mode_value)
print('Variance:', variance)
print('Standard Deviation:', std_dev)
```

Mean: 75.1 Median: 77.0 Mode: 56

Variance: 136.09

Standard Deviation: 11.67

2 of 2 10/29/2023, 1:32 AM