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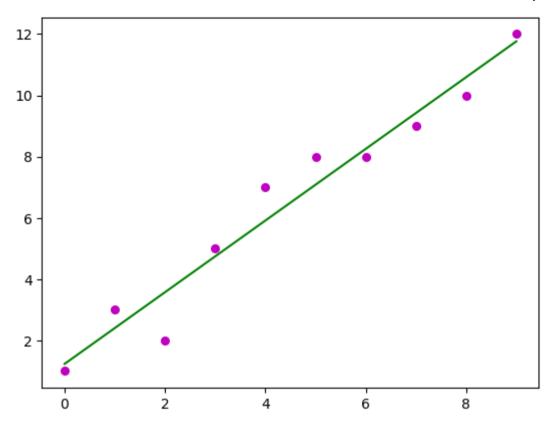
Lakshay Sharma

Hindu College

Section B

1. Write a program to implement linear regression using python.

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2. Write a program to perform read and write operation with .csv file.

```
In [17]: import pandas as pd

df=pd.read_csv("C:/Users/LENOVO/Downloads/Book1.csv")
    df.head()
```

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```
Out[17]:
            Col1 Col2 Col3
                  40
                       60
             30
             40
                  80 120
             17 34 51
             60 120 180
In [32]: import csv
         with open('Book1.csv', 'w', newline='') as file:
             # Create a CSV writer object
             writer = csv.writer(file)
             # Write some data to the file
             writer.writerow(['John', 'Doe', '25'])
             writer.writerow(['Jane', 'Smith', '30'])
             writer.writerow(['Bob', 'Johnson', '45'])
```

3. Write a Program to enter multiple values-based data in multiple columns/rows and show that data in python using DataFrames and pandas.WAP in python to perform various statistical measures using pandas

```
print(df)
        print("Mean of the ages :",df.Age.mean())
        print("Standard deviation of the ages :",df.Age.std())
                         City Country
           Name Age
        0 John
                25 New York
                                  USA
                 30
                       London
                                   UK
           Jane
                 45
            Bob
                        Paris France
        Mean of the ages : 33.33333333333333
        Standard deviation of the ages : 10.408329997330664
In [ ]:
```