**Assignment No-8**

Q.1. A bar chart is drawn(using pyplot) to represent sales data of various models of cars, for a month. Write appropriate statements in Python to provide labels Month - June and Sale done to x and y axis respectively

Q.2Write a method/function DISPLAYWORDS() in python to read lines from a text file STORY.TXT, and display those words, which are less than 4 characters.

Q.3. Create the following DataFrame Sales containing year-wise sales figures for five salespersons in INR. Use the years as column labels, and salesperson names as row labels.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 2014 | 2015 | 2016 | 2017 |
| Madhu | 100.5 | 12000 | 20000 | 50000 |
| Kusum | 150.8 | 18000 | 50000 | 60000 |
| Kinshuk | 200.9 | 22000 | 70000 | 70000 |
| Ankit | 30000 | 30000 | 10000 | 80000 |
| Shruti | 40000 | 45000 | 125000 | 90000 |

a)Display the row labels of Sales.

b) Display the column labels of Sales.

c) Display the data types of each column of Sales.

d) Display the last two rows of Sales.

e) Display the dimensions, shape, size and values of Sales.

f) Display the last two rows of Sales.

g) Display the first two columns of Sales.

h) Create a dictionary using the following data. Use this dictionary to create a DataFrame Sales2.