**ASSIGNMENT IV**

**Execute the following questions in Jupyter Notebook and upload the .ipynb file. There are 2 questions in this assignment and each carries 10 marks.**

1. Create 100 random integers between 1 and 10 (both inclusive). Calculate the frequency of occurrence of the numbers (use bincount()) and plot them as under:
   1. Plot the values on a histogram, with the frequency being displayed above each bar.
   2. Plot the values on a scatter plot, with the numbers below 5 in one color and numbers above five in another color. The markers for the values should appear as stars.
2. Using [www.timesjobs.com](http://www.timesjobs.com/), perform the following:
   1. Generate the above URL for the default skills – Data Science, Data Analyst, Data Scientist
   2. Accept user input on skill(s), experience and location. The user can input n number of skills.
   3. Build the URL on the basis of the user details collected.
   4. Extract from the URL, the following skills required for the different jobs on the web page.
   5. Create a horizontal bar chart of the skills and the number of jobs that require that skill, in descending order. (Ignore skills that have a count of 1 on the web page.)