Lab 6: M-script file

- 1. a) Create a file called mysphere.mat
 - b) Create and plot a sphere using **sphere** function. Sphere function creates a unit circle which can be scaled using surf function (**hint**: try different values of 'r' using surf function).
 - c) Run and observe the output
 - d) What is your observation?
- 2. a) Create an excel sheet consisting the following data:

Temperatures of Cities as on 20.6.2006					
City	Max.	Min.			
Ahmedabad	38°C	29°C			
Amritsar	37°C	26°C			
Bangalore	28°C	21°C 27°C			
Chennai	36°C				
Delhi	38°C	28°C			
Jaipur	39°C	29°C			
Jammu	41°C	26°C			
Mumbai	32°C	27°C			

- b) Explore xlsread function using help
- c) Read the excel file created in step a) using xlsread function
- d) Create an M-File and write a script which finds the following:
 - i) Compare and identify the city that recorded the max temperature
 - ii) Plot the given data using bar graph.
- i) Create an excel file with the following data:

Roll No	Name	Accountancy	English	Maths	Economics	Business Studies
1	Akhilesh	97	36	47	13	34
2	Ruchi	69	85	86	51	53
3	Bhawna	19	72	41	53	40
4	Isha	76	68	46	11	22
5	Chetan	55	31	56	99	93
6	Neeti	84	57	68	30	31
7	Chanchal	18	46	51	63	22
8	Preeti	93	93	31	93	20
9	Richa	33	89	55	46	69
10	Manish	21	27	84	82	96
11	Karun	13	48	27	26	38
12	Madhur	85	74	26	53	84
13	Nitesh	28	31	27	77	17

- ii) Read the file in matlab using xlsread
- iii) Create a function tot_marks to calculate total marks of eachStudent.
- iv) Create function avg to calculate average marks of each student.
- v) Plot the marks obtained in step III) using bar graph