UCSC

SCS2211 - LABORATORY II
Octave Lab Practical Sheet - 06

Instructions

- **Do the tasks given in the practical sheet and take screenshots of the outputs**
- **Create a folder and include the files, outputs related to each question inside it.**
- **Convert the folder into a compressed file.**
- **Rename the compressed file with your index number (Eg: 2000000.pdf)**
- **Any form of plagiarism or collusion is not allowed**
- **upload the document to the submission link.**

(You are free to do the following exercises either in the Octave Command line or in the Octave GUI. **However, the GUI is preferable**.)

1. Create a function to calculate the circumference of a circle.

2. Create a function to calculate the area inside a circle.

3. Create a function to calculate the surface area of a globe.

4. Create a function to calculate the force, if the mass and the acceleration are provided.

5. Create a function to calculate the mass of an object if its force and acceleration are provided.

6. Create a function to calculate y, where $y = x^4 - x^3 + 7$.

7. Create a function to calculate z, where $z = a^b$.

Check ALL the functions in questions 1 to 7, using suitable values.