

CS 213: Linux Assignment

1. Sort the file `/etc/passwd` in ascending order based on the 3rd column entries (read them as numbers) *1 mark*
2. Cut the usernames from the file `/etc/passwd` *1 mark*
3. For the text file [data.txt](#) *3 marks*
 - a. List those names that are 5 letters long and starts with Y
 - b. Print records from 6th to 12th line
 - c. Replace name Ankit with Ashish
4. Declare an Array of length 7 and find *6 marks*
 - a. The total number of elements
 - b. Print all the elements
 - c. Print the 5th element
 - d. Extract three elements starting from index two.
 - e. Replace third element with 'Debian' and display.
 - f. Append any new element at the end of Array.
5. Find the sum of first n prime numbers *5 marks*
6. Write a menu driven program for mathematical calculation *2 marks*
 - a. It should take user inputs a and b
 - b. It should ask for mathematical operator (+, -, / and *).
 - c. Do the calculation
 - d. Print the output
7. Write a program *3 marks*
 - a. Where a function adds all the elements in an array.
 - b. The function should display the sum of elements.
 - c. Make 2 function calls with array elements- (1, 2, 3) and (4, 5, 6).

What to submit?

- Please zip all your files, and submit a single file named "`<roll-no>.zip`", where `<roll-no>` should be replaced with your IIT Dharwad roll number.
- The zip file should contain the following scripts as
 - `script1.sh`
 - `script2.sh`
 - ...
 - `script7.sh`