**IT – PROBLEM STATEMENTS**

1. Write a Java script function charFreq() that takes a string and builds a frequency listing of the characters contained in it. Represent the frequency listing as a Javascript object.
2. Write a JavaScript to validate your USN.
3. Write an npm script to check whether the number is palindrome or not.(Hint: use npm start)
4. Write a JavaScript closure to calculate student's SGPA and CGPA. Use SGPA to calculate CGPA
5. Write a node.js program to create following modules
6. To print nth Fibonacii number
7. To check the number is Armstrong or Not
8. Write a JavaScript program using prototype to implement a calculator.
9. Write a JavaScript to implement PAYTM TRANSACTIONS using closures
10. Write a node.js program to create a custom middleware functions that outputs the current URL and Time Stamp to the console.
11. Write a node.js program to implement Stack and Queue using modules.

10. Write an npm script to check whether the number is Automorphic number or not. An automorphic number is the number which is contained in the last digit(s) of its square. Example: 25 is an automorphic number as its square is 625 and 25 is present as the last two digits and other examples are 5\*\*2 = 25, 6\*\*2 = 36, 76\*\*2 = 5776. (Hint: run the program through npm start)