

# Assignment:

1. Solve the following problems and send a link to the solutions with a brief description of the solution. You can share the solutions using a Google Docs link or your GitHub repository and email it to [shubhayu@powerrouter.io](mailto:shubhayu@powerrouter.io).
2. Avoid plagiarizing.

## Problems:

1. Write a Java program to find the longest substring from a given string that doesn't contain any duplicate characters.

Example:

- Input : Welcome to PowerRouter.
- Output : Welcome

2. Write a Program for the first 10 numbers of Fibonacci series.

Example:

- Output : 0,1,1,2,3,5,8,13,21,34

3. Write a program to print all permutations of a string.

Example:

- Input : CAT
- Output : CAT , CTA , ACT , ATC , TAC , TCA

4. Write a program to check if two strings are Anagrams?

Example:

- Input : Welcome
- Output : ceelmow

5. Implement stack using queue without using an array or linked list.

- Push
- Pop
- Top

6. Write a program to reverse a string.

Example:

- Input : Welcome
- Output : emoclew