**Charotar University of Science and Technology**

IT267 – JAVA PROGRAMMING Practical 9:

**Aim**: you're a cybersecurity analyst investigating a suspicious string of characters. You need to analyze it thoroughly to uncover any hidden patterns or anomalies. The number of characters in the string to understand its size, Standardize the string for case-insensitive comparisons, highlight potential keywords or acronyms, and Identify palindromes or potential encryption methods. Sort the string: Analyze character distribution and frequency.

CODE :

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| import java.util.Scanner; import java.util.Arrays; public class prac9\_1  { static void length(String s1) {  System.out.print("The length of the entered string is  "+s1.length()+"\n\n"); } public static void main(String[] args)  {  String s,l,u; int no;  Scanner sc = new Scanner(System.in);  System.out.print("Enter the string here : "); s = sc.nextLine();  System.out.print(":::::::::::::::::MENU::::::::::::::::\n"); do{  System.out.println("Press 1 for finding lenght of string \nPress 2 for converting string to lowercase \nPress 3 for converting string to uppercase \nPress 4 for reversing the string \nPress 5 for sorting the string\nPress 6 for exiting the menu."); no = sc.nextInt();  switch(no)  { case 1: length(s); break; case 2:  l=s.toLowerCase();  System.out.println("The lowercase string is "+l+"\n\n"); break; case 3:  u=s.toUpperCase(); |
| System.out.println("The uppercase string is "+u+"\n\n"); break; case 4:  String rev= new StringBuilder(s).reverse().toString(); System.out.print("The reverse string is "+rev+"\n\n"); break; case 5:  char[] sor = s.toCharArray();  Arrays.sort(sor);  String sorted =new String(sor);  System.out.print("The sorted string is "+sorted+"\n\n"); break;  }  }while(no!=6);  System.out.println("THANK YOU FOR USING US.......!!!!!!!!!!"); }  System.out.print("KARTK GULERIA - 23DIT015"); } |

