Daily Work Practice: Date - 4/9/2023

Program: - Maximum value of string in array

```
package com.ishwarchavan;
public class MaxElementArray {
                                  //class is created
      public static void main(String[] args) {    //main program is started
              String[] strs = {"alic3", "bob", "3", "4", "0000000000"};;
            System.out.println(maximumValue(strs)); //function calling
    public static int maximumValue(String[] strs) {    //function is created
        int maximum = 0;
        for(int i = 0; i < strs.length; i++) //loops is created</pre>
           boolean value = false;
            int j = 0;
                       //initializing value
            String word = strs[i];
            while (j < word.length()) //condition is checking</pre>
                int letter = word.charAt(j);
                if (letter > 96 && letter < 123)  //if condition is true then</pre>
initialize the true value
                    value = true;
                   break;  //break the loops
                j += 1; //increment with 1
            if (value == true) //if this is true
                if (word.length() > maximum) //checking the condition if true
                   maximum = word.length();
            }
            else
                int number = Integer.parseInt(word);    //if false then checking this
conditionn
                if (number > maximum)
                   maximum = number; //initialize the value
                }
            }
        }
           return maximum; //return the maximum value
```

Program:- Distinct of prime factors of product of array

```
package com.ishwarchavan;
import java.util.HashSet;
import java.util.Set;
public static int distinctPrimeFactors(int[] nums) {      //function is created
     created
      for (int num : nums) {
         int i = 2;  //initializing and declaring variable
         while (num > 1) {
                         //if true then executed if...else statement
            if (num % i == 0) {
              primeFactors.add(i); //adding value
              num =num / i;
            } else {
               i++; //increment the value
        }
      }
public static void main(String[] args) {    //main program is started
    int nums[]= {2,4,3,7,10,6,12,14,10,16,12};  //nums arrays created
    System.out.println(distinctPrimeFactors(nums)); //calling and printing the
value
}
}
```