Daily Work Practice Date:- 6/9/2023

Program:- Prime Substraction Operation

```
package com.ishwarchavan;
import java.util.Arrays;

public class PrimeSubstractionOpe {    //class is created
      public static void main(String[] args) {   //main program is started
            int nums[]= {4,9,6,10 };     //array is created
            System.out.println(primeSubOperation( nums));     //function calling and
printing value
      }

    public static boolean primeSubOperation(int[] nums) {    //function is created
        boolean []prime=new boolean[1001];     //object is created
        Arrays.fill(prime,true);
        prime[0]=false;
        prime[1]=false;
        for(int i=2;i<=1000;i++){   //loops created
            for(int j=2;j*j<=i;j++){
                if(i%j==0){     //condition is checking
                    prime[i]=false;
                    break;      // break the loops
                }
            }
        }
        for(int i=nums.length-2;i>=0;i--){    //iterating
            if(nums[i]<nums[i+1]){     //checking condition
                continue;
            }else{       //otherwise
                int diff=nums[i]-nums[i+1];   //substracting and store in diff variable
                boolean flag=false;
                int p=-1;

                for(int j=diff+1;j>=0 && j<=1000 && j<nums[i];j++){   //loops is
created
                    if(prime[j]){
                        flag=true;   //assigning true value to the flag
                        p=j;
                        break;    //break the loops
                    }
                }

                if(!flag){    //reverse the result
                    return false;    //returning false
                }

                nums[i]=nums[i]-p;  //substracting and store in nums array
            }
        }
        return true;   //return true

    }
}
```

Program:- Count the digits that divide number

```
package com.ishwarchavan;

public class CountDigitThatDivideNum {  //class is created

      public static void main(String[] args) {    //main program is started
            int n =121;    // initializing and declaring n variable
```

```
            System.out.println(countDigits(n));   //calling and printing function
      }
    public static int countDigits(int n) {   //function is started
        int a=n, c=0;    //assigning value

        while(n>0)   //checking condition
        {
            if(a%(n%10)==0)    //if true then increment c++
                c++;
            n=n/10;
        }
        return c;   //return the c value
    }
}
```