### CSA 0976 Java Programming

```
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Assignment 4
1.Code:
import java.io.*;
class FileStats
      public static void main(String[] args)
      String fileName = "File1.txt";
      int wordCount = 0;
      int charCount = 0;
      int lineCount = 0;
      try (BufferedReader br = new BufferedReader(new
FileReader(fileName)))
            String line;
            while ((line = br.readLine()) != null)
                  lineCount++;
                  String[] words = line.split("\string");
                  wordCount += words.length;
                  charCount += line.length();
            }
      }
            catch (IOException e)
```

```
{
     e.printStackTrace();
}
System.out.println("Word count: " + wordCount);
System.out.println("Character count: " + charCount);
System.out.println("Line count: " + lineCount);
}
Output:
C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-4 Assignment>javac
```

```
C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-4 Assignment>javac FileStats.java
C:\Users\saran\OneDrive\Desktop\Java\Assignment\Day-4 Assignment>java FileStats
Word count: 6
```

Character count: 40 Line count: 3

```
import java.io.*;
class Customer
{
    private int accountNo;
    private String accName;
    private int balance;
    public Customer(int accountNo, String accName, int balance)
    {
        this.accountNo = accountNo;
        this.accName = accName;
        this.balance = balance;
    }
    public synchronized void deposit(int amount)
    {
}
```

```
balance += amount;
      System.out.println("Amount " + amount + " deposited. New balance is "
+ balance);
      notify();
      public synchronized void withdraw(int amount)
      if (balance < amount)
             {
            System.out.println("Insufficient balance. Waiting for deposit...");
            try
                   wait();
             }
                   catch (InterruptedException e)
                   e.printStackTrace();
             }
      }
      balance -= amount;
      System.out.println("Amount " + amount + " withdrawn. New balance is "
+ balance);
}
class Main
{
      public static void main(String[] args)
```

```
int i=12345;
    String s="Saran";
    int amount=1000;

Customer customer = new Customer(i,s,amount);
    System.out.println("Account holder name :"+s);
    System.out.println("Account balance :"+amount);

Thread withdrawThread = new Thread(() -> {customer.withdraw(1100);});

Thread depositThread = new Thread(() -> {customer.deposit(200);});
    withdrawThread.start();
    depositThread.start();
}
```

```
C:\Users\VAEUN\OneDrive\Desktop\java>java Main
Account balance. Naising for deposit...
Amount 280 deposited. New balance is 1280
Amount 1180 withdrawn. New balance is 180

C:\Users\VARUN\OneDrive\Desktop\java>
```

```
import java.io.*;
import java.util.*;
```

```
class FizzBuzz
{
      public static void main(String arg[])
      {
            int i;
            String a[]=new String[1000];
            Scanner s=new Scanner(System.in);
            System.out.print("Enter N value :");
            i=s.nextInt();
            for(int j=1;j<=i;j++)
             {
                   if(j%3==0 && j%5==0)
                         a[j-1]="FizzBuzz";
                   else if(j%3==0)
                         a[j]="Fizz";
                   else if(j\%5==0)
                   {
                         a[j]="Buzz";
                   }
                   else
                         a[j]=Integer.toString(j);
                   }
```

```
}
    System.out.println("List :");
    for(int j=1;j<=i;j++)
    {
        System.out.println(a[j]);
    }
}</pre>
```

```
import java.io.*;
import java.util.*;
class StringShifts
{
    public static boolean canBecomeGoal(String s, String goal)
    {
```

```
if (s.length() != goal.length())
            return false;
      for (int i = 0; i < s.length(); i++)
             {
             if (s.equals(goal))
                   return true;
             }
             s = s.substring(1) + s.charAt(0);
      return false;
      public static void main(String[] args)
      String s1;
      String goal;
             Scanner s=new Scanner(System.in);
             System.out.print("S:");
             s1=s.nextLine();
             System.out.print("goal :");
             goal=s.nextLine();
      System.out.println(canBecomeGoal(s1, goal)); // false
}
```

class PrimeExample implements Runnable

```
flag = 1;
                    for (int j = 2; j < i; j++)
                           if (i \% j == 0)
                                  flag = 0;
                                  break;
                           }
                    }
                    if (flag != 1)
                           System.out.println(i + " is not prime number");
                    }
                           else
                           {
                           System.out.println(i + " is prime number");
                    }
       }
}
class prime
{
      public static void main(String args[])
       {
             try
```

```
{
    PrimeExample p1 = new PrimeExample();
    Thread t1 = new Thread(p1);
    t1.start();
}
    catch (Exception e)
    {
        System.out.println(e.getMessage());
    }
}
```

