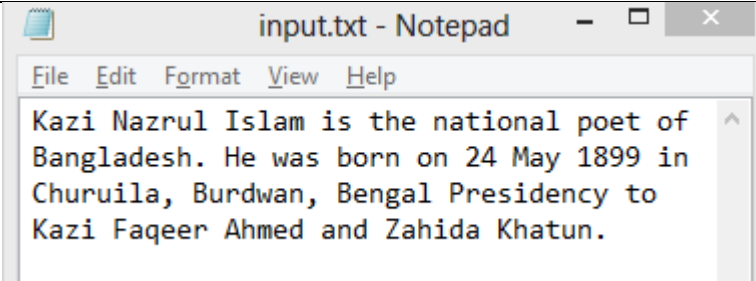


**Class Test 05(A): CSI 203 – Object Oriented Programming, Fall 2019**  
**Total Marks: 20, Time: 25 minutes**

Name:

ID:

1. Assume the content of .txt file contains both number and non-number(String). Write a java program to read the content of a file "input.txt", find out only the numbers and write those numbers in console. [14]

<u>Sample Input</u>	<u>Expected Output for Sample input</u>
	24 1899

2. The object of Box class is not serializable. Update the class below so that we can serialize the object of this class. [6]

```
public class Box {
    int length, width, height;

    public Box(int length, int width, int height) {
        this.length = length;
        this.width = width;
        this.height = height;
    }

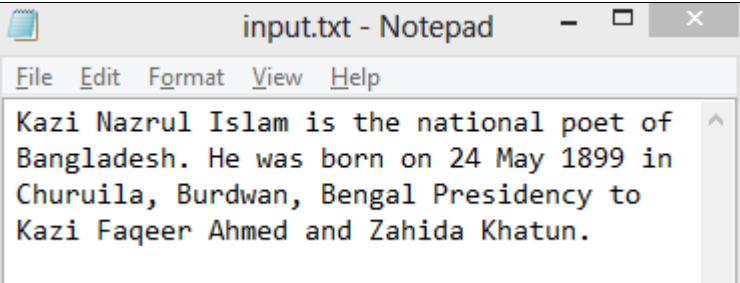
    @Override
    public String toString() {
        return "Box [length=" + length + ", width=" + width + ", height="
            + height + "]";
    }
}
```

**Class Test 05(B): CSI 203 – Object Oriented Programming, Fall 2019**  
**Total Marks: 20, Time: 25 minutes**

Name:

ID:

1. Write a java program to read the content of a file, find out the words start with vowel and write those words in another file. [14]

Sample Input	Expected Output for Sample input
	Islam is of on in Ahmed and

2. Observe the classes below. Are objects of both classes serializable? Explain your answer. [6]

```
import java.io.Serializable;

public class Patient extends Person{
    String docName;
    public Patient(String name, int age, String dName) {
        super(name, age);
        dName = docName;
    }

    public void goForCheckUp(){
        String info = String.format("%s is visiting %s for check-up", docName);
        System.out.println(info);
    }
}

class Person implements Serializable{
    String name;
    int age;
    public Person(String name, int age) {
        this.name = name;
        this.age = age;
    }

    public void eat() {
        System.out.println("Human is omnivorous.");
    }
}
```