

What is an Age

```
package test;
```

```
import java.util.ArrayList;
```

```
import java.util.List;
```

```
import java.util.stream.Collectors;
```

```
class Person{
```

```
    private String name;
```

```
    private int age;
```

```
    public Person(String name, int age) {
```

```
        this.name = name;
```

```
        this.age = age;
```

```
    }
```

```
    public String getName() {
```

```
        return name;
```

```
    }
```

```
    public void setName(String name) {
```

```
        this.name = name;
```

```
    }
```

```
    public int getAge() {
```

```
        return age;
```

```
    }
```

```
    public void setAge(int age) {
```

```
        this.age = age;
```

```
    }
```

```
}
```

```
class StreamImplementation{
```

```

    public static int sumAge( List<Person> list ) {
        return list.stream().filter(p->p.getAge() > 50 ).mapToInt(p->p.getAge()).sum();
    }

    public static List<String> printName( List<Person> list ) {
        return list.stream().map( p-> p.getName( ) ).collect(Collectors.toList());
    }

    public static List<Integer> printAge( List<Person> list ) {
        return list.stream().map(p->p.getAge()).collect(Collectors.toList());
    }
}

public class Program {
    public static void main(String[] args) {
        List<Person> list = new ArrayList<Person>( );
        list.add(new Person("Perry", 20));
        list.add(new Person("Ferry", 52));
        list.add(new Person("Katty", 100));
        list.add(new Person("Elly", 14));

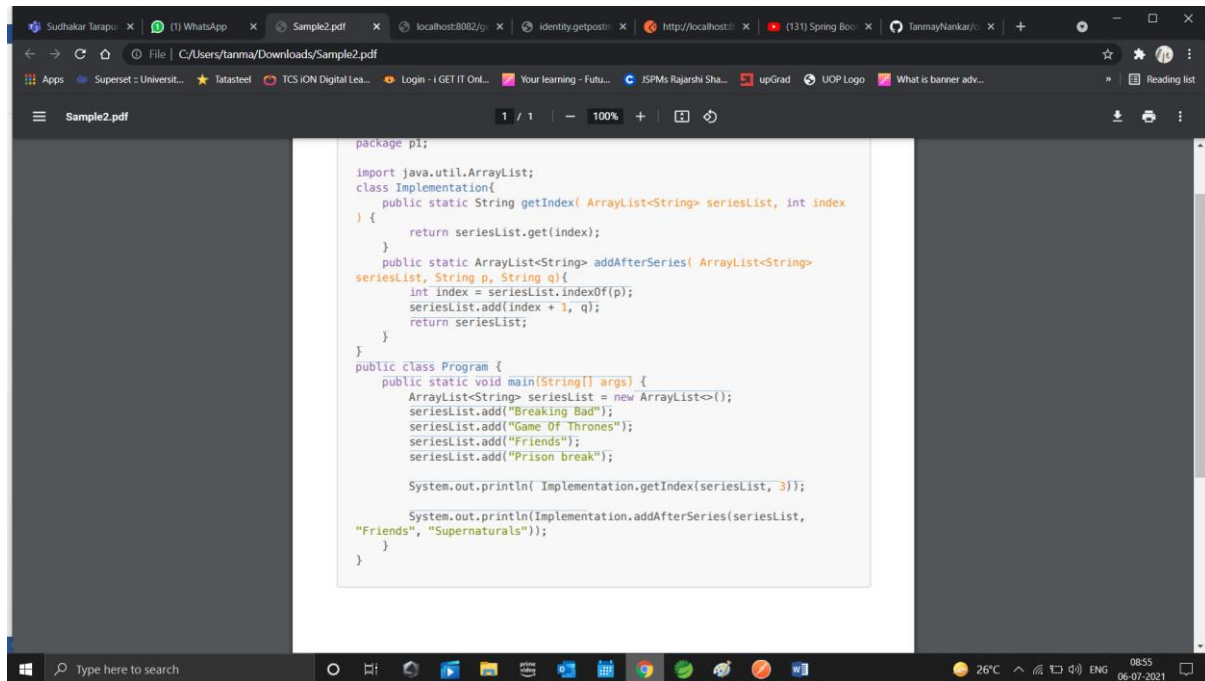
        System.out.println(StreamImplementation.sumAge(list));

        System.out.println(StreamImplementation.printName(list));

        System.out.println(StreamImplementation.printAge(list));
    }
}

```

:add elements to end using condition



```
package pi;

import java.util.ArrayList;
class Implementation{
    public static String getIndex( ArrayList<String> seriesList, int index
) {
    return seriesList.get(index);
}
    public static ArrayList<String> addAfterSeries( ArrayList<String>
seriesList, String p, String q){
    int index = seriesList.indexOf(p);
    seriesList.add(index + 1, q);
    return seriesList;
}
}
public class Program {
    public static void main(String[] args) {
        ArrayList<String> seriesList = new ArrayList<>();
        seriesList.add("Breaking Bad");
        seriesList.add("Game Of Thrones");
        seriesList.add("Friends");
        seriesList.add("Prison break");

        System.out.println( Implementation.getIndex(seriesList, 3));

        System.out.println(Implementation.addAfterSeries(seriesList,
"Friends", "Supernaturalis"));
    }
}
```

List of operation

```
import java.util.*;

class ArrayListOps {

    public List makeArrayListInt(int n){

        List<Integer> arrList = new ArrayList<Integer>();

        for(int i = 0 ; i < n ; i++){

            arrList.add(0);

        }

        return arrList;

    }

    public List reverseList(ArrayList<Integer> arr){

        Collections.reverse(arr);

        return arr;

    }

    public List changeList(ArrayList<Integer> arrL, int m, int n){

        Collections.replaceAll(arrL,m,n);

        return arrL;

    }

}

public class Source{

    public static void main(String[] args) {

    }

}
```

Age

```
import java.util.*;

class Age {
    String drinkingAge;
}

class implementation {
    public String validateAgeToDrink(Age obj, int personAge) {
        try {
            if(personAge<21) {
                throw new IllegalAgeException("Illegal drinking age");
            } else {
                obj.drinkingAge = "legal";
            }
        } catch(IllegalAgeException iae) {
            obj.drinkingAge = "illegal";
            return iae.getMessage();
        }
        return obj.drinkingAge;
    }

    public String validateStringAgeToDrink(Age obj, String personAge) {
        try { if(personAge.length()>2 || Integer.parseInt(personAge)<21) {
            throw new IllegalAgeException("Invalid age detail or drinking age");
        } else if(personAge.length()<2 && Integer.parseInt(personAge)>=21) {
            obj.drinkingAge = "legal";
        }
        } catch(IllegalAgeException iae) {
            obj.drinkingAge = "illegal";
            return iae.getMessage();
        }
    }
}
```

```
}  
    return obj.drinkingAge;  
}  
}  
class IllegalAgeException extends Exception {  
    IllegalAgeException(String str) {  
        super(str);  
    }  
}  
public class Source {  
    public static void main(String args[]) throws Exception {  
    }  
}
```

School Management System

```
public class Student {  
    private String name;  
    private float percentage;  
    public Student(String name, float percentage) {  
        super();  
        this.name = name;  
        this.percentage = percentage;  
    }  
    public String getName() {  
        return name;  
    }  
    public void setName(String name) {  
        this.name = name;  
    }  
    public float getPercentage() {  
        return percentage;  
    }  
    public void setPercentage(float percentage) {  
        this.percentage = percentage;  
    }  
  
    public static void main(String[] args) {  
        ArrayList<Student> list = new ArrayList<>();  
        list.add(new Student("Steve", (float)56.3));  
        list.add(new Student("Bob", (float)67.3));  
        list.add(new Student("Alice", (float)98.4));  
        list.add(new Student("Mark", (float)40));  
    }  
}
```

```
School obj = new School();  
obj.studentList = list;
```

```
obj.sortByName();  
obj.getAvgPercentage();  
}  
}
```

```
class Sorting implements Comparator<Student>  
{
```

```
@Override
```

```
public int compare(Student o1, Student o2) {
```

```
if((o1.getName().compareTo(o2.getName())) > 0)
```

```
{
```

```
    return 1;
```

```
}else
```

```
{
```

```
    return -1;
```

```
}
```

```
}
```

```
}
```

```
class School
```

```
{
```



```
ArrayList<Student> studentList = new ArrayList<Student>();
```

```
public ArrayList<Student> sortByName ()
```

```
{
```

```
    Sorting s = new Sorting();
```

```
    Collections.sort(studentList,s);
```

```
    return studentList;
```

```
}
```

```
public double getAvgPercentage()
```

```
{
```

```
    double Avgp = 0;
```

```
    for(Student s : studentList)
```

```
    {
```

```
        Avgp = Avgp + s.getPercentage();
```

```
    }
```

```
    Avgp = Avgp/studentList.size();
```

```
    return Avgp;
```

```
}
```

```
}
```

Set first and last name

```
public class Employee {

    private String firstName;
    private String lastName;
    private String ssn;

    public Employee()
    {
        firstName = null;
        lastName = null;
        ssn = null;
    }

    public Employee(String firstName, String lastName, String ssn) {
        this.firstName = firstName;
        this.lastName = lastName;
        this.ssn = ssn;
    }

    public String getFirstName() {
        return firstName;
    }

    public void setFirstName(String firstName) {
        this.firstName = firstName;
    }
}
```

```
}
```

```
public String getLastName() {  
    return lastName;  
}
```

```
public void setLastName(String lastName) {  
    this.lastName = lastName;  
}
```

```
public String getSsn() {  
    return ssn;  
}
```

```
public void setSsn(String ssn) {  
    this.ssn = ssn;  
}
```

```
String validateName(String firstName,String lastName) throws Exception  
{  
    try  
    {  
        if(firstName == null || lastName == null)  
        {  
            Exception NullPointerException = new NullPointerException("Entry Missing");  
            throw NullPointerException;  
        }  
        else if(firstName.length() == 0 || lastName.length() == 0)  
        {
```

```

        Exception StringIndexOutOfBoundsException = new
StringIndexOutOfBoundsException("Index out of bound");

        throw StringIndexOutOfBoundsException;

    }else if(Character.isDigit(firstName.charAt(0)) || Character.isDigit(lastName.charAt(0)))
    {

        Exception IllegalArgumentException = new IllegalArgumentException("First Character is
invalid");

        throw IllegalArgumentException;

    }


    setFirstName(firstName);
    setLastName(lastName);
    return "Valid String";

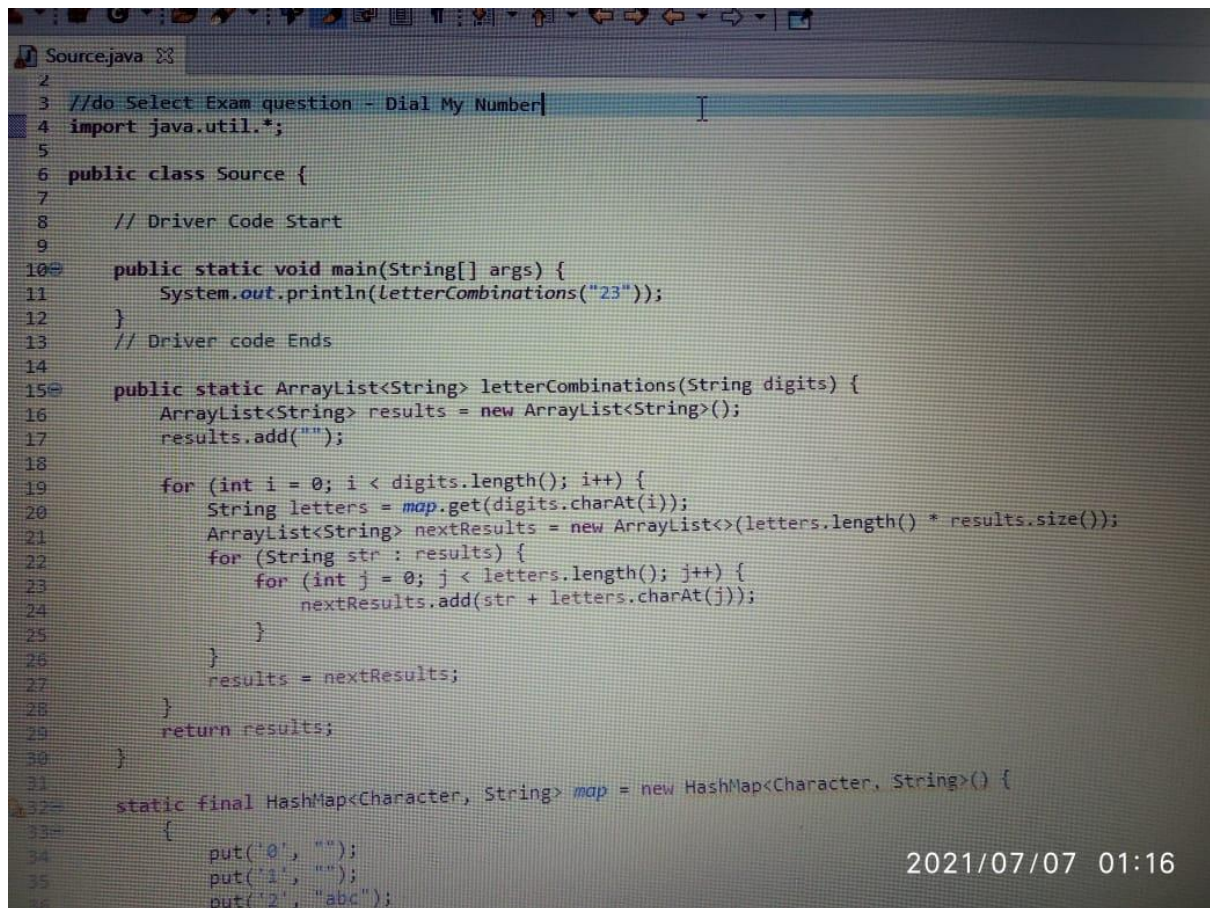
}catch(NullPointerException n)
{
    n.getMessage();
    return "";
}
catch(StringIndexOutOfBoundsException s)
{
    s.getMessage();
    return "";
}
catch(IllegalArgumentException i)
{
    i.getMessage();
    return "";
}
}}

```

Sherlock Needs Help

```
1 import java.util.Scanner;
2
3 class IdentifyWords{
4     public String getPossibleWords(String s1, String s2){
5         String[] parts = s2.split(":");
6         int i;
7         String resultString = "";
8         for(String s : parts) {
9             i = s1.indexOf("_");
10            String newName = s.substring(0,i)+ "_" + s.substring(i + 1);
11            if(newName.equals(s1)) {
12                resultString += s.toUpperCase() + ":";
13            }
14        }
15        resultString = resultString.substring(0, resultString.lastIndexOf(':'));
16        return resultString;
17    }
18 }
19 public class Source {
20     public static void main(String args[]) {
21         Scanner scanner = new Scanner(System.in);
22         String s1 = scanner.next();
23         String s2 = scanner.next();
24         IdentifyWords identifyWords = new IdentifyWords();
25         System.out.println(identifyWords.getPossibleWords(s1, s2));
26     }
27 }
28 }
```

Q-Dial my number



The screenshot shows a Java IDE with a file named 'Source.java'. The code is a Java program that generates letter combinations for a given number. It uses a recursive approach with a helper method 'letterCombinations'. A static final 'HashMap' named 'map' is used to map digits to their corresponding letters. The main method calls 'letterCombinations' with the input '23'.

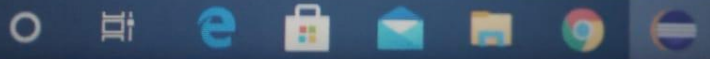
```
Source.java
2
3 //do Select Exam question - Dial My Number
4 import java.util.*;
5
6 public class Source {
7
8     // Driver Code Start
9
10    public static void main(String[] args) {
11        System.out.println(letterCombinations("23"));
12    }
13    // Driver code Ends
14
15    public static ArrayList<String> letterCombinations(String digits) {
16        ArrayList<String> results = new ArrayList<String>();
17        results.add("");
18
19        for (int i = 0; i < digits.length(); i++) {
20            String letters = map.get(digits.charAt(i));
21            ArrayList<String> nextResults = new ArrayList<>(letters.length() * results.size());
22            for (String str : results) {
23                for (int j = 0; j < letters.length(); j++) {
24                    nextResults.add(str + letters.charAt(j));
25                }
26            }
27            results = nextResults;
28        }
29        return results;
30    }
31
32    static final HashMap<Character, String> map = new HashMap<Character, String>() {
33        {
34            put('0', "");
35            put('1', "");
36            put('2', "abc");
37        }
38    }
```

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```
31
32 static final HashMap<Character, String> map = new HashMap<Character, String>() {
33     {
34         put('0', "");
35         put('1', "");
36         put('2', "abc");
37         put('3', "def");
38         put('4', "ghi");
39         put('5', "jkl");
40         put('6', "mno");
41         put('7', "pqrs");
42         put('8', "tuv");
43         put('9', "wxyz");
44     }
45 };
46 }
47
```

Writable

Smart Insert



: BMI Calculator

```
import java.util.Scanner;

public class BmiCalculator {

    float getWeight (String str) {

        String [] weightArray=str.split("@");

        String wt = (weightArray[0].replace("-", "."));

        float weight = Float.parseFloat(wt);

        return weight;

    }

    float getHeight(String str) {

        String [] HeightArray= str.split("@");

        String ht =(HeightArray[1].replace("-", "."));

        float height = Float.parseFloat(ht);

        return height;

    }

    public static void main(String[] args) {

        BmiCalculator bmiCal = new BmiCalculator();

        Scanner scanner = new Scanner(System.in);

        System.out.println("Please enter string");

        String weight = scanner.next();

        float wt = bmiCal.getWeight(weight);

        System.out.println(wt);

        float ht = bmiCal.getWeight(weight);
```



```
System.out.println(ht);
```

```
}
```

```
}
```