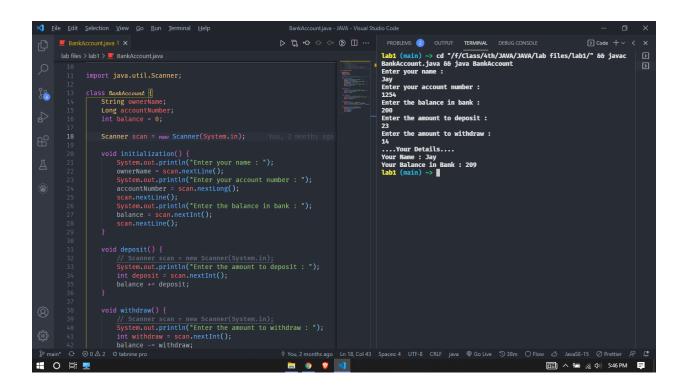
#### BANK ACCOUNT

```
import java.util.Scanner;
class BankAccount {
       // Scanner scan = new Scanner(System.in);
   void withdraw() {
       // Scanner scan = new Scanner(System.in);
       balance -= withdraw;
```

```
void display() {
    System.out.println("....Your Details.... ");
    System.out.println("Your Name : " + ownerName);
    System.out.println("Your Balance in Bank : " + balance);
}

public static void main(String[] args) {
    BankAccount user1 = new BankAccount();
    user1.initialization();
    user1.deposit();
    user1.withdraw();
    user1.display();
}
```



```
import java.util.Scanner;
class Student {
   String stuName;
            marks[i] = scan.nextInt();
       System.out.println("Your student ID is : " + stuId);
marks[i]);
(totalMark / 3));
```

```
public static void main(String[] args) {
    Student s1 = new Student();
    s1.setData();
    s1.getData();
}
```

```
Student.java - JAVA - Visual Studio Code
                                                                                                                                                                                                                                       D Code + ✓ 〈 X
                                                                                                                                                  PROBLEMS 

OUTPUT TERMINAL DEBUG CONSOLE
                                                                                                                                                lab1 (main) -> cd "/f/Class/4th/JAVA/JAVA/lab files/lab1/" 66 javac Student.java 66 java Student Enter your details Enter your student id 1524 Enter your name
           lab files > lab1 > ■ Student.java > .
                                                                                                                                                 Enter your marks in any three subject
                    You, 2 months ago | 1 author (You)
class Student {
   int stuld, totalMark = 0;
   String stuName;
   int[] marks = new int[3];
                                                                                                                                                  Enter your marks in subject 1
                                                                                                                                                  Enter your marks in subject 2
                                                                                                                                                  Enter your marks in subject 3
95
                         Your Details
Your student ID is : 1524
Your name is : Jay
Your marks are :
                                                                                                                                                 The average of your marks is : 90 lab1 (main) ~> ■
                          void getData() {
   System.out.println("\nYour Details");
   System.out.println("Your student ID is : " + stuId);
   System.out.println("Your name is : " + stuName);
   System.out.println("Your marks are :\n");
■ 0 🛱 💆
                                                                                                         iii 0 V 🔻
                                                                                                                                                                                                                   🗐 ^ 🗺 🦟 🗘) 5:46 PM 🌹
```

#### CAR.JAVA

```
public class Car {
   int model;
   String make;
   int speed = 0;

   Car(int a, String m, int s) {
      model = a;
      make = m;
   }
}
```

```
speed = s;
public static void main(String[] args) {
   c1.brake();
```

```
| See | Edit | Selection | Yellow | Go | Bun | Temman | March | March
```

#### RETAIL. JAVA

```
import java.util.Scanner;

public class RetailItem {
   String description;
   int units;
   double price;

   RetailItem(String d, int u, double p) {
       description = d;
       units = u;
       price = p;
   }

   RetailItem() {
   };

   Scanner scan = new Scanner(System.in);

   void mutator() {
       System.out.println("\nEnter the details");
   }
}
```

```
System.out.println("Description of Item");
       description = scan.nextLine();
       System.out.println("Number of items");
       units = scan.nextInt();
       scan.nextLine();
       System.out.println("Price of item");
       price = scan.nextDouble();
       scan.nextLine();
   void accessor() {
       System.out.println("\nDescription : " + description);
       System.out.println("Number of Items : " + units);
       System.out.println("Retail Price of Item : " + price);
   public static void main(String[] args) {
       RetailItem r1 = new RetailItem("This is first description from the
constructor", 20, 523.65);
       RetailItem r2 = new RetailItem("This is second description from
the constructor", 40, 70.65);
       r1.accessor();
       r2.accessor();
       RetailItem r3 = new RetailItem();
       r3.mutator();
       r3.accessor();
```

INHERITANCE. JAVA

```
class A {
    private int a, b;
    protected float c, d;
    public int e, f;

A() {
        a = 1;
        b = 2;
        c = 3;
        d = 4;
        e = 5;
        f = 6;
}

A(int g, int h, float i, float j, int k, int l) {
        a = g;
        b = h;
        c = i;
        d = j;
        e = k;
```

```
void display() {
       System.out.println("This method will not be overridden after B");
class B extends A {
        super();
   void display() {
       System.out.println("This method will not be overridden after B");
class C extends B {
```

```
e = 15;
    void display() {
       System.out.println("From C");
   // void notOverriden() {
class D extends B {
        super();
   void display() {
       System.out.println("D : " + d);
       System.out.println("E : " + e);
public class Data {
   public static void main(String[] args) {
       System.out.println("\nparameterized Constructor");
       a2.display();
       b2.display();
       c2.display();
       d2.display();
```

```
| Data |
```

#### VEHICLE.JAVA

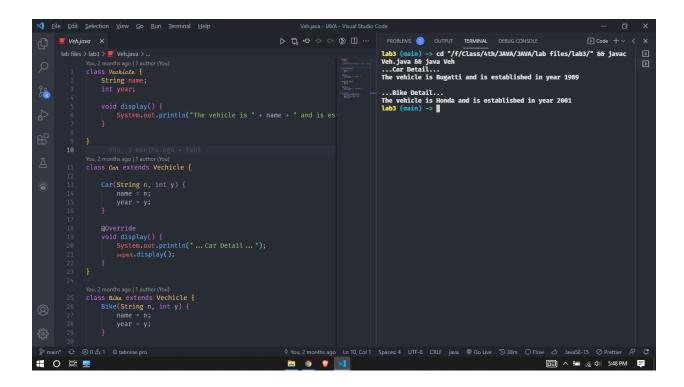
```
class Vechicle {
   String name;
   int year;

   void display() {
       System.out.println("The vehicle is " + name + " and is established in year " + year);
   }
}

class Car extends Vechicle {

   Car(String n, int y) {
       name = n;
       year = y;
   }

   @Override
   void display() {
```



#### MARK.JAVA

```
class Student {
class Exam extends Student {
public class Mark {
```

```
| See | Edit | Selection | Year | Go | Bun | Temminal | Eeleja | Markjava - JAVA - Visual Studios | Code |
```

#### MATH.JAVA

```
interface MyMath {
   public int addition(int x, int y);
}

class Math implements MyMath {
   public int addition(int x, int y) {
        int z = x + y;
        return z;
   }
}

class AdvancedMath extends Math {
   void myAdd(int x, int y) {
        System.out.println(super.addition(x, y));
   }
}

class MathQues {
   public static void main(String[] args) {
        AdvancedMath al = new AdvancedMath();
        al.myAdd(5, 6);
   }
}
```

#### SHAPE.JAVA

```
abstract class Shape {
   abstract void display();
}
interface IPoint {
   public void displayPoint();
}
class Triangle extends Shape implements IPoint {
   void display() {
       System.out.println("I am triangle shape");
   }
   public void displayPoint() {
       System.out.println("Triangle with point = 3");
```

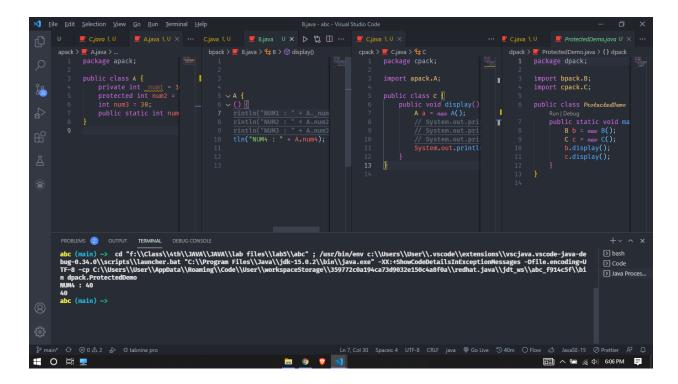
```
class Hexagon extends Shape implements IPoint {
class Circle extends Shape {
public class TwoC {
   public static void main(String[] args) {
```

```
ThreeDCircle cc1 = new ThreeDCircle();
    cc1.display();
}
```

#### PACKAGE. JAVA

```
package dpack;
import bpack.B;
import cpack.C;
```

```
public class ProtectedDemo {
    public static void main(String[] args) {
        B b = new B();
        C c = new C();
        b.display();
        c.display();
    }
}
```



#### STUDENT. JAVA

```
} catch (ArithmeticException e) {
} catch (ArrayIndexOutOfBoundsException e) {
```

#### **BUSRES.JAVA**

```
### Biblic State | Section | New Go | Sun | Femmal | Help | Budlespara-JMA-VioualStude Code | Code |
```

#### TEMPERATURE.JAVA

```
import java.util.Scanner;

// Create a class temperature with member variable temp. Implement exception
handling to test if

// temperature is equal to zero.
```

```
class Temperature {
        } catch (TemperatureException e) {
class TemperatureException extends Exception {
```

QUEUE.JAVA

```
import java.util.*;

class QueueTest<T> {
    LinkedList<T> Q = new LinkedList<>();
    int front = -1, rear = -1;

    void enqueue(T X) {
        front++;
        Q.add(X);
    }

    void dequeue() {
        if (this.empty())
            return;
        else if (front == rear) {
            front = rear = -1;
        } else {
            Q.removeFirst();
    }
}
```

```
class QueueQues {
   public static void main(String[] args) {
```

#### STACK. JAVA

```
// Program to create a stack to store integer, double and student objects
using generics.
import java.util.Stack;

class StackTest<T> {
    Stack<T> stk = new Stack<>();
    String student = "Student";

    void add(T a) {
        stk.push(a);
    }
}
```

```
void display() {
                                                                                          System.out.println(stk);
                                            void delete() {
                                                                                        stk.pop();
class StackQues {
                                            public static void main(String[] args) {
                                                                                          StackTest stk = new StackTest();
                                                                                       stk.add(5);
                                                                                       stk.add("15");
                                                                                       stk.add(stk.student);
                                                                                       stk.display();
                                                                                       stk.delete();
                                                                                       stk.display();

★ File Edit Selection View Go Run Terminal Help

■ Property Selection Vie
                                                                                                                                                                                                                                                                                                                                          > $\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\parallel{\p
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lab7 (main) -> cd "/f/Class/4th/JAVA/JAVA/lab files/lab7/" 66 javac
StackQues.java 86 java StackQues
Note: StackQues.java uses unchecked or unsafe operations.
Note: Recompile with -Xlint:unchecked for details.
[5, 15, Student]
[5, 15]
lab7 (main) ->
                                                                      You, a day ago | 1 author (You)
class StackTest<T> {
    Stack<T> stk = new Stack⇔();
    String student = "Student";
            65
                                                                      You, a day ago | 1 author (You)

Class StackQues {
                                                                                   ass StackQues {
    Run|Debug
    public static void main(String[] args) {
        StackTest stk = new StackTest();
        stk.add(5);
        stk.add(15*);
        stk.add(stk.student);
        stk.display();
        stk.delete();
        stk.display();
}
                                                                                                                                                                                                                                                                                                                                                         ■ 0 🛱 星
```

#### LIBRARY.JAVA

```
import java.io.FileInputStream;
import java.io.FileOutputStream;
class Library {
false);
        } catch (Exception e) {
       // FileInputStream fin = new FileInputStream("library.txt");
        // while ((i = fin.read()) != -1) {
```

```
// System.out.print((char) i);

// }

// fin.close();

// } catch (Exception e) {

// System.out.println(e);

// }

}
```

```
| Sile | Edit | Selection | Mew | So | Bun | Temminal | Edith | Editors | Ed
```

#### STRING.JAVA

```
class StringQues {

    // @Override

   public static String toString(int stri) {

      return "Good Morning";
   }
}
```

```
public static void main(String[] args) {
   System.out.println(str);
   String sss1 = "Hello BMSCE Good Morning";
```

```
// System.out.println(toString("Good Morning"));
}
}
```

```
| StringQuesjave LU X | D this | StringQuesjave Lu X | D this | D
```

### Arraydequeue.JAVA

```
import java.util.ArrayDeque;

class Arraydequeue {

   public static void main(String[] args) {

        ArrayDeque adq = new ArrayDeque();
        adq.add(1);
        adq.add(2);
        adq.add(3);

        System.out.println(adq);
        adq.addFirst(100);

        System.out.println(adq);
        adq.addLast(500);

        System.out.println(adq);
        adq.clear();
        System.out.println(adq);
        // adq.display();
    }
}
```

#### ArrayList.JAVA

```
import java.util.ArrayList;

class Arraylist {
    public static void main(String[] args) {
        // ArrayList<Integer> alist = new ArrayList<Integer>():
        ArrayList alist = new ArrayList();
        alist.add("a");
        alist.add("b");
        alist.add("c");
        alist.add("d");
        alist.add(5);
        // alist.display();
        System.out.println(alist);
        alist.remove("c");
        // alist.display();
        System.out.println(alist);
        alist.remove("b");
```

```
// alist.display();
System.out.println(alist);
alist.clear();
System.out.println(alist);
}
```

#### Hashset.JAVA

```
import java.util.HashSet;

class Books {
   int id, quantity;
   String name, author;

public Books(int id, String name, String author, int quantity) {
```

```
class Hashset {
   public static void main(String[] args) {
       Books b2 = new Books (2, "Book2", "Author 2", 60);
       hset.add(b1);
       hset.add(b2);
       hset.remove(b3);
```

```
}
```

```
| File | Edit | Selection | Year | So | Burn | Emminal | Method |
```

#### Treeset.JAVA

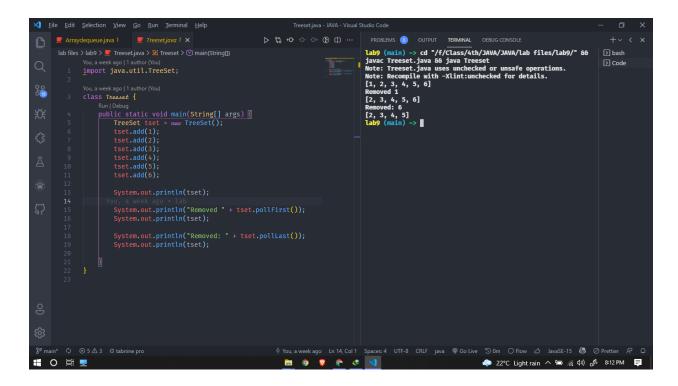
```
import java.util.TreeSet;

class Treeset {
    public static void main(String[] args) {
        TreeSet tset = new TreeSet();
        tset.add(1);
        tset.add(2);
        tset.add(3);
        tset.add(4);
        tset.add(5);
        tset.add(6);

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

```
System.out.println("Removed " + tset.pollFirst());
System.out.println(tset);

System.out.println("Removed: " + tset.pollLast());
System.out.println(tset);
}
```



# THANK YOU