

Write the output of the following program.

```
class Test {
    public static void main(String[] args) {
        try {
            System.out.println("Welcome to Java");

            int i = 0;

            int y = 2 / i;

            System.out.println("Welcome to Java");
        }
        catch (ArithmeticException ex) {
            System.out.println("Welcome to Java");
        }
        finally {
            System.out.println("End of the block");
        }
    }
}
```

Write the output of the following program.

```
public abstract class Vehicle {
    protected String brand;
    protected double price;

    public Vehicle() {
        brand = "Unknown";        price = 50.0;
        System.out.println(" ... Brand : " + brand + " --- Price : " + price); }
    public Vehicle(String b, double p) {
        brand = b;                price = p;
        System.out.println(" ... Brand : " + brand + " --- Price : " + price); }
    public void show() {
        System.out.println(" ... Brand : " + brand + " --- Price : " + price); }
}

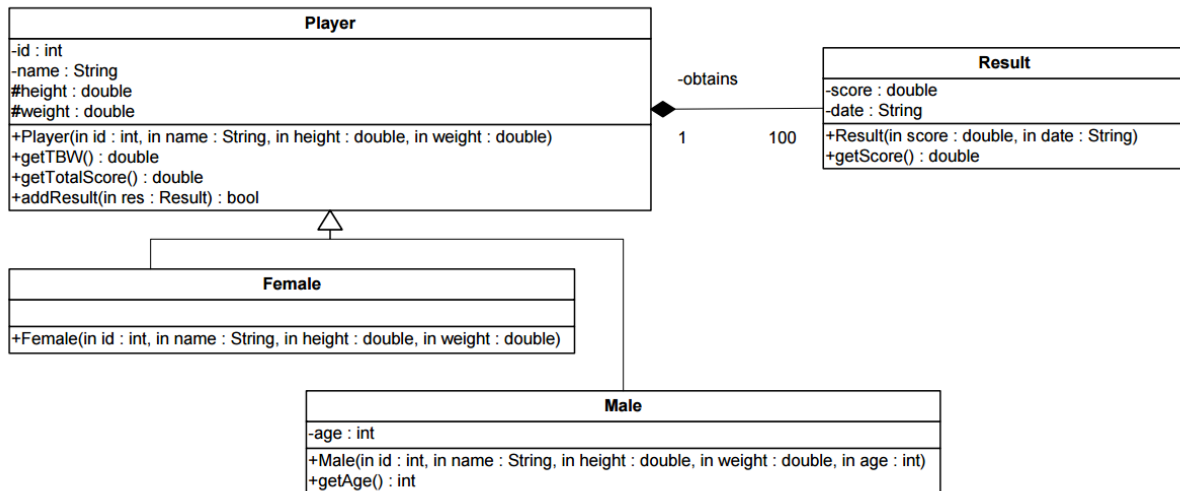
public class Bus extends Vehicle {
    private String name;
    private int nbOfSeats;

    public Bus(){
        name = "Hafeela";
        nbOfSeats = 11;
        show();
    }
    public Bus(String s, String b, double p, int n) {
        name = s;                brand = b;
        price = p;                nbOfSeats = n;
        show();
    }
    public void show() {
        System.out.println(" **** Name : " + name + " .... Nb of Seats : " + nbOfSeats);
        super.show();
    }
    public void addPassangers(int nb) throws Exception{
        if (nb <= 0) throw new Exception ("Unaccepted parameter value");
        if (nb > nbOfSeats) throw new Exception ("Parameter value exceeds available seats");

        nbOfSeats -= nb;
        show();
    }
}

public class Testing {
    public static void main(String[] args) {
        Bus m1 = new Bus();
        System.out.println("++++++++++++++++++++++++++++++++++++++++");

        Bus m2 = new Bus("m2", "Mercedes", 70.0, 5);
        System.out.println("=====");
        try {
            m1.addPassangers(10);
            System.out.println("-----");
            m2.addPassangers(10);
        }
        catch(Exception e) {
            System.out.println(e.getMessage());
        }
    }
}
```



- **Class Player**
  - **Player(...):** constructor. By default a player may have 100 results.
  - **getTBW():** calculates the Total Body Water (TBW) based on the following formulas:
    - For **Male**:  $TBW = 2.447 - (0.09156 \times \text{age}) + (0.1074 \times \text{height}) + (0.3362 \times \text{weight})$
    - For **Female**:  $TBW = -2.097 + (0.1069 \times \text{height}) + (0.2466 \times \text{weight})$
  - **getTotalScore():** returns the sum of the scores obtained by the player.
  - **addResult(...):** adds a new result to the player results. It returns true if the insertion is done. Otherwise, it returns false.
- **Class Result**
  - **Result(...):** constructor
  - **getScore():** returns the score of the result. This method throws an exception “No Score” if Score equals zero.
- **Class Male**
  - **Male(...):** constructor
  - **getAge():** returns the age of the male.

Write in Java the classes: Player, Result and Male.