WEEK 1 PRACTICE

1) //Create class to print Harry's age

```
class Harry {
	public static void main(String[] args) {
			String name = "Harry";

			int birth_year = 2000;

			int current_year = 2024;

			int age = current_year-birth_year;
			System.out.println(name+"'s age in "+current_year+" is: "+age);
	}
}
```

---

2) //Created class to calculate average marks

```
class PCM{
	public static void main(String[] args){
		String name = "Sam";
		int Phy = 95;
		int Chem = 96;
		int Math = 94;
		int average = (Phy+Chem+Math)/3;

		System.out.println(name+"'s average marks in PCM is "+average);
	}
}
```

3)

```
class dist{

	public static void main(String[] args){

		double dist_km = 10.8;

		double dist_mile= 10.8*1.6;



		System.out.println("The distance "+dist_km+" km in miles is

"+dist_mile);

	}

}
```

---

4)public class ProfitLoss {

    public static void main(String[] args) {

        int costPrice = 129;

        int sellingPrice = 191;

        int profit = sellingPrice - costPrice;

        double profitPercentage = (double) profit / costPrice * 100;

        System.out.println("The Cost Price is INR " + costPrice + " and Selling Price is INR " + sellingPrice + "\n" +

                "The Profit is INR " + profit + " and the Profit Percentage is " + profitPercentage);

            }

}

5)public class PensDistribution {

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

        int totalPens = 14;

        int students = 3;

        int pensPerStudent = totalPens / students;

        int remainingPens = totalPens % students;

        System.out.println("The Pen Per Student is " + pensPerStudent + " and the remaining pen not distributed is " + remainingPens);

            }

}
```

---

6) public class UniversityFeeDiscount

```
    { public static void main(String args)

    {

        int fee = 125000;

        int discountPercent = 10;


        double discount = (double) fee * discountPercent / 100; // Calculate discount

        double discountedFee = fee - discount; // Calculate discounted fee


        System.out.println("The discount amount is INR " + discount);

        System.out.println("and final discounted fee is INR " + discountedFee);

            }

}
```

7)
```
public class EarthVolume {
    public static void main(String[] args) {
        double radiusKm = 6378;
        double pi = Math.PI;

        // Calculate volume in cubic kilometers
        double volumeKm = (4.0 / 3.0) * pi * Math.pow(radiusKm, 3);

        // 1 mile = 1.60934 kilometers
        double radiusMiles = radiusKm / 1.60934;
        double volumeMiles = (4.0 / 3.0) * pi * Math.pow(radiusMiles, 3);

        System.out.println("The volume of earth in cubic kilometers is " + volumeKm);
        System.out.println("and cubic miles is " + volumeMiles);
          }
}
```

PAGE 10) import
java.util.Scanner;

```
public class KmToMiles {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.print("Enter distance in kilometers: ");
        double km = input.nextDouble();

        double miles = km / 1.60934; // 1 mile = 1.60934 km

        System.out.println("The total miles is " + miles + " miles for the given " + km + " km.");
        input.close(); // Close the scanner to prevent resource leaks
           }
}
```

PAGE 10) import
java.util.Scanner;

```
public class UserFeeDiscount {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);


        System.out.print("Enter the student fee: ");

        int fee = input.nextInt();


        System.out.print("Enter the discount percentage: ");

        int discountPercent = input.nextInt();


        double discount = (double) fee * discountPercent / 100;

        double discountedFee = fee - discount;


        System.out.println("The discount amount is INR " + discount);

        System.out.println("and final discounted fee is INR " + discountedFee);

        input.close();

           }

}
```

PAGE 10) import
java.util.Scanner;

```
public class HeightConversion {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);


        System.out.print("Enter your height in centimeters: ");

        double heightCm = input.nextDouble();


        // 1 inch = 2.54 cm

        double heightInches = heightCm / 2.54;


        // 1 foot = 12 inches

        int feet = (int) (heightInches / 12); // Get whole feet

        double remainingInches = heightInches % 12; // Get remaining inches


        System.out.println("Your Height in cm is " + heightCm);

        System.out.println("while in feet is " + feet);

        System.out.println("and inches is " + remainingInches);

        input.close();

           }

}
```