1. **Exercism - Day 1 - Hello World!**

public class App {

        static String getGreeting() {

            return "Hello, World!";

        }

    public static void main(String[] args) throws Exception {

        System.out.println(getGreeting());

    }

}

1. **Write a program to demonstrate compatible type conversions. For eg., float to int, double to float, int to short**

class Narraowing{

    public static void main(String[] args) {

        int intNum=255;

        float floatNum=255.000901f;

        double doubleNum=256.09007978901d;

        long longNum=2147483648l;

        byte byteNum=1;

        short shortNum=100;

        char character='a';

        System.out.println((float)intNum); //Wideing float,double

        System.out.println((byte)intNum); //Narrowing

        System.out.println((char)intNum); //Narrowing

        System.out.println((byte)floatNum); //Narrowing

        System.out.println((float)doubleNum); //Narrowing getting percise

        System.out.println((int)floatNum); //Narrowing

        System.out.println((long)doubleNum); //Narrowing

        System.out.println((byte)character); //Narrowing

        System.out.println((float)byteNum); //Wideing

        System.out.println((int)'அ'); //Wideing

        System.out.println((int)longNum); //Narrowing

        System.out.println((double)shortNum);

    }

}

1. **Create multiple classes in single file and compile and explore how many .class files are generated.**

public class NumberOfDifferentClass {

}

class Class1{}

class Class2{}

class Class3{

    class NestedClass{}

}

class Class4{}

class Class5{

    class NestedClass2{}

}

//8 .class files.

//After Compiling the code with many classes, for each class it creates a .class file.

//creating a nested class (class within a class) also creates a .class file with outsideclass$insideclass.

1. **Write a Java program that gets a number from the user and displays the name of the weekday. Use enum.**

import java.util.Scanner;

public class Weekday {

    enum weekdays{

        SUNDAY,

        MONDAY,

        TUESDAY,

        WEDNESDAY,

        THURSDAY,

        FRIDAY,

        SATURDAY;

    }

    // public static void getWeekday(int choice){

    //     switch (choice) {

    //         case 1: System.out.println(weekdays.SUNDAY);

    //             break;

    //         case 2: System.out.println(weekdays.MONDAY);

    //             break;

    //         case 3: System.out.println(weekdays.TUESDAY);

    //             break;

    //         case 4: System.out.println(weekdays.WEDNESDAY);

    //             break;

    //         case 5: System.out.println(weekdays.THURSDAY);

    //             break;

    //         case 6: System.out.println(weekdays.FRIDAY);

    //             break;

    //         case 7: System.out.println(weekdays.SATURDAY);

    //             break;

    //         default: System.out.println("Select 1 to 7 only.");

    //     }

    // }

    public static void main(String[] args) {

        weekdays[] week=weekdays.values();

        Scanner s=new Scanner(System.in);

        System.out.println(week[(s.nextInt())-1]);

        s.close();

    }

}

1. **Write a program that calculates the average weight of 10 people. Use descriptive and meaningful variable names following Java naming conventions. Use proper datatypes for the variables.**

import java.util.Scanner;

public class AverageOfTen {

    public static void main(String[] args) {

        Scanner s=new Scanner(System.in);

        float averageWeight=0;

        float sumAverage=0;

        float weights[]=new float[10];

        for(int i=0;i<10;i++){

            weights[i]=s.nextFloat();

        }

        for(int i=0;i<10;i++){

            sumAverage+=weights[i];

        }

        averageWeight=sumAverage/10;

        System.out.println(averageWeight);

        s.close();

    }

}