

ASSIGNMENT-1 -Anish.M

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());  
    }  
}
```

2. 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)'अ'); //Wideing  
        System.out.println((int)longNum); //Narrowing  
        System.out.println((double)shortNum);  
    }  
}
```

3. 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.
```

4. 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();
}
}

```

5. 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();
    }
}

```