LEADING UNIVERSITY, SYLHET

Dept. of Computer Science & Engineering

An Assignment on

Constructor & Method Overloading

Course Code: CSE-2214

Course Title: Object Oriented Programming Sessional

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Task – 1

```
public class Smartphone {
    int battery_life, ram;
    String chipset;

    Smartphone() {
        battery_life = 5000;
        ram = 8;
        chipset = "MediaTek MT6833 Dimensity 700 5G (7 nm)";
    }

    Smartphone(int battery_life, int ram, String chipset) {
        this.battery_life = battery_life;
        this.ram = ram;
        this.chipset = chipset;
    }
}
```

Task – 1 (main Method)

```java
public class Task_1 {

    public static void main(String[] args) {
        System.out.println("\t\t--Experimental Phone: Oppo A93s 5G--\n");

        // ----------------------1st Phone-----------------------//

        Smartphone mobilePhone1 = new Smartphone(); /// Default Values to Each Three Attributes
        System.out.println("*1st Phone: Default Values*");
        System.out.println("Battery Life: " + mobilePhone1.battery_life + " mAh");
        System.out.println("RAM: " + mobilePhone1.ram + "GB");
        System.out.println("Chipset: " + mobilePhone1.chipset);

        // ----------------------2nd Phone-----------------------//

        Smartphone mobilePhone2 = new Smartphone(4000, 4, "Qualcomm SM6115 Snapdragon 662 (11 nm)");
        System.out.println("\n\n*2nd Phone: Customized Values 1*");
        System.out.println("Battery Life: " + mobilePhone2.battery_life + " mAh");
        System.out.println("RAM: " + mobilePhone2.ram + "GB");
        System.out.println("Chipset: " + mobilePhone2.chipset);

        // ----------------------3rd Phone-----------------------//

        Smartphone mobilePhone3 = new Smartphone(5500, 6, "Spreadtrum SC7731");
        System.out.println("\n\n*3rd Phone: Customized Values 2*");
        System.out.println("Battery Life: " + mobilePhone3.battery_life + " mAh");
        System.out.println("RAM: " + mobilePhone3.ram + "GB");
        System.out.println("Chipset: " + mobilePhone3.chipset);
    }
}
```

Task – 2

```java
public class SeriesPrinter {
    public void printSeries(int n) {
        for (int i = 0; i <= n; i++) {
            System.out.print(i + " ");
        }
        System.out.println("\n");
    }

    public void printSeries(int startIndex, int endIndex) {
        for (int i = startIndex; i <= endIndex; i++) {
            System.out.print(i + " ");
        }
        System.out.println("\n");
    }

    public void printSeries(int startIndex, int endIndex, int interval) {
        for (int i = startIndex; i <= endIndex; i += interval) {
            System.out.print(i + " ");
        }
        System.out.println("\n");
    }
}
```

Task – 2 (main Method)

```java
public class Task_2 {

    public static void main(String[] args) {
        SeriesPrinter myPrinter = new SeriesPrinter();

        // startIndex = 10
        System.out.print("1st Print: ");
        myPrinter.printSeries(10);

        // startIndex = 10,endIndex = 20
        System.out.print("2nd Print: ");
        myPrinter.printSeries(10, 20);

        // startIndex = 10,endIndex = 29, interval = 5
        System.out.print("3rd Print: ");
        myPrinter.printSeries(10, 29, 5);

    }

}
```