Name: Chharng Chhit
ID: e20200008
Group: I3-GIC-A

OOP TP 2 Report

Exercise 1:

```java
package TP02;

import java.util.Scanner;

public class TP02_01 {
    Run | Debug
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        String name;
        System.out.print(s:"Input your name: ");
        name = sc.nextLine();
        System.out.println("Hello "+name);

        System.out.println(x:"\n\n");
        sc.close();
    }
}

```

Output:

```
Input your name: ChharngChhit
Hello ChharngChhit
```

Exercise 2:

```java
package TP02;
import java.util.Scanner;
public class TP02_02 {
    Run | Debug
    public static void main(String[] args) {
        int a, b;
        Scanner sc = new Scanner(System.in);
        System.out.println(x:" Program for calculating perimeter and surface of Rectangle.");
        System.out.print(s:"Please Input width (in meter): ");
        a = sc.nextInt();
        System.out.print(s:"Please Input high (int meter): ");
        b = sc.nextInt();
        System.out.printf(format:"\tThe Perimeter of Rectangle is : %d m",(a+b)*2);
        System.out.printf(format:"\n\tThe surface of Rectangle is : %d m^2\n\n\n",a*b);
        sc.close();
    }
}

```

Output:

```
onMessages' '-cp' 'C:\Users\CHHIT\AppData\Roaming\Code\User\worksp
P02.TP02_02'

Program for calculating perimeter and surface of Rectangle.
Please Input width (in meter): 3
Please Input high (int meter): 5
        The Perimeter of Rectangle is : 16 m
        The surface of Rectangle is : 15 m^2
```

Exercise 3

```java
package TP02;
import java.util.Scanner;
public class TP02_03 {
    Run | Debug
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        float x, y, z;
        System.out.print(s:"Input y: ");
        if(sc.hasNextFloat()){
            y = sc.nextFloat();
            System.out.print(s:"Input z: ");
            z = sc.nextFloat();
            x = 1/(1/y+1/z);
            System.out.printf(format:"\tThe result of x = %.4f\n\n\n",x);
        }
        else{
            System.err.println(x:"ERROR: Input float only.");
        }
        sc.close();
    }
}
```

Output:

```
PS D:\General\ITC\I3-GIC\Semester_2\OOP\TP>  & 'C:\Pro
onMessages' '-cp' 'C:\Users\CHHIT\AppData\Roaming\Code
P02.TP02_03'
Input y: 15
Input z: 2
        The result of x = 1.7647


PS D:\General\ITC\I3-GIC\Semester_2\OOP\TP>
```

Exercise 4

```java
package TP02;
import java.util.Scanner;
public class TP02_04 {
    Run | Debug
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int number, hundred;
        System.out.println(x:"Program for counting the number of hundred.");
        System.out.printf(format:"Input a interger number: ");
        number = sc.nextInt();
        hundred = number / 100;
        System.out.printf(format:"\nThere are %d hundred in number %d.\n\n\n", hundred, number);
        sc.close();
    }
}
```

Output:

```
PS D:\General\ITC\I3-GIC\Semester_2\OOP\TP>  & 'C:\Program
onMessages' '-cp' 'C:\Users\CHHIT\AppData\Roaming\Code\User
P02.TP02_04'
Program for counting the number of hundred.
Input a interger number: 200300

There are 2003 hundred in number 200300.
```

Exercise 5

```java
package TP02;
import java.util.Scanner;
public class TP02_05 {
    Run | Debug
    public static void main(String[] args) {
        System.out.println("Px:rogram for guessing your luckiness.");
        Scanner sc = new Scanner(System.in);
        int n;
        System.out.print("Ps:lease input a positive number: ");
        n = sc.nextInt();
        System.out.printf("Iformat: got %d. I am luckier.\n\n\n", n+1);
        sc.close();
    }
}
```

Output

```
PS D:\General\ITC\I3-GIC\Semester_2\OOP\TP>  & 'C:\Program F
onMessages' '-cp' 'C:\Users\CHHIT\AppData\Roaming\Code\User\
P02.TP02_05'
Program for guessing your luckiness.
Please input a positive number: 20092
I got 20093. I am luckier.
```