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B. Tech. (3ʳᵈ Sem)

BCSE-506L (Performance Analysis of Programming Languages Lab)

EXPERIMENT NO. 3

__AIM__: **Tax slabs for general 0 to 1,80,000 No tax,1,80,001 to 5,00,000 10%,5,00,001 to 8,00,000 20%, Above 8,00,000 30%. Income tax slabs for Women 0 to 1,90,000 No tax, 1,90,001 to 5,00,000 10%, 5,00,001 to 8,00,000 20%, Above 8,00,000 30%.**
Write if statements to achieve this. Make sure that you indent the code well so that it is readable.
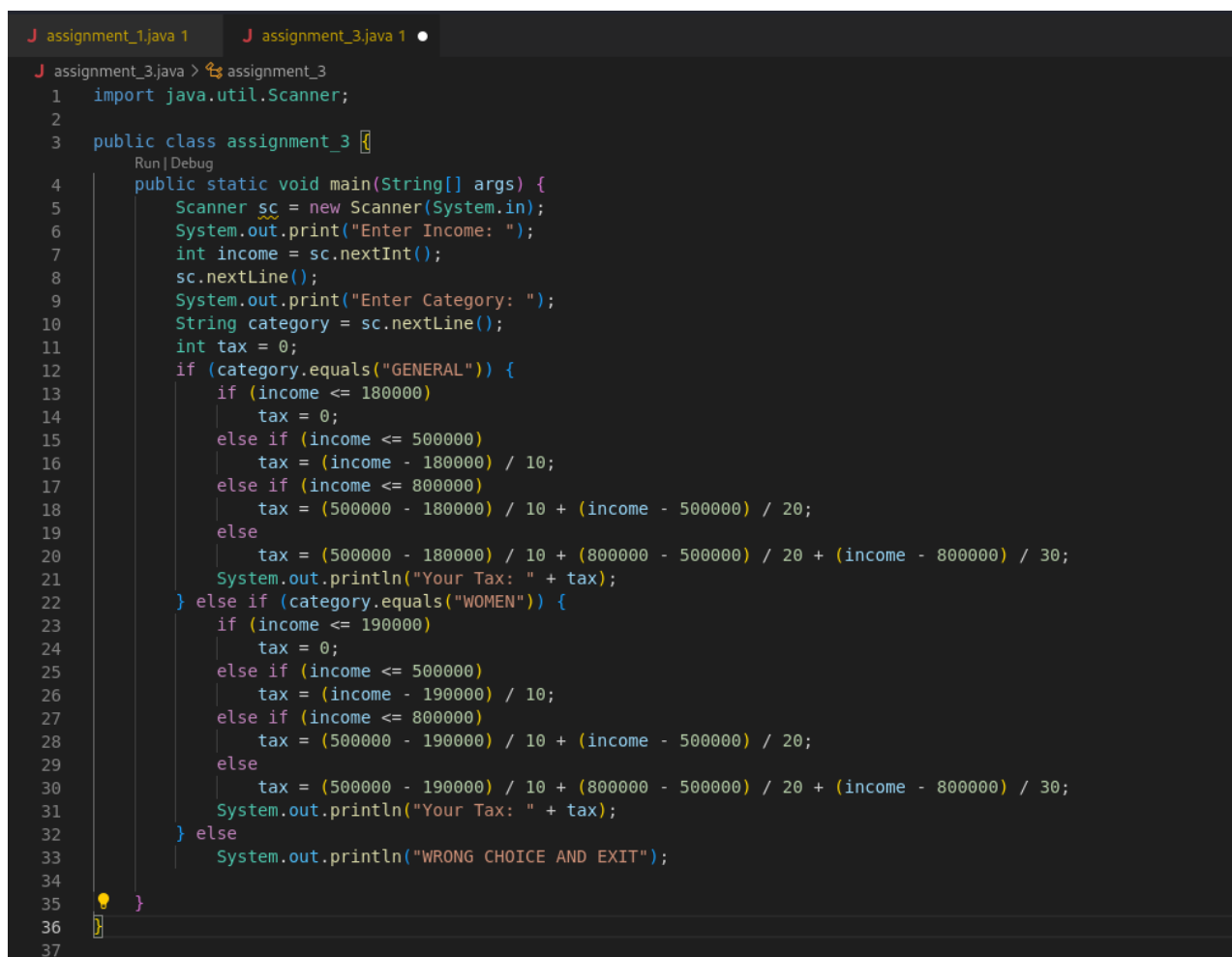
Source Code :

```java
import java.util.Scanner;

public class assignment_3 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter Income: ");
        int income = sc.nextInt();
        sc.nextLine();
        System.out.print("Enter Category: ");
        String category = sc.nextLine();
        int tax = 0;
        if (category.equals("GENERAL")) {
            if (income <= 180000)
                tax = 0;
            else if (income <= 500000)
                tax = (income - 180000) / 10;
            else if (income <= 800000)
                tax = (500000 - 180000) / 10 + (income - 500000) / 20;
            else
                tax = (500000 - 180000) / 10 + (800000 - 500000) / 20 +
(income - 800000) / 30;
            System.out.println("Your Tax: " + tax);
        } else if (category.equals("WOMEN")) {
            if (income <= 190000)
                tax = 0;
            else if (income <= 500000)
                tax = (income - 190000) / 10;
            else if (income <= 800000)
                tax = (500000 - 190000) / 10 + (income - 500000) / 20;
            else
                tax = (500000 - 190000) / 10 + (800000 - 500000) / 20 +
(income - 800000) / 30;
            System.out.println("Your Tax: " + tax);
        } else
            System.out.println("WRONG CHOICE AND EXIT");

    }
}
```

OUTPUT :

```
┌──(codebajju㉿kali)-[~/Desktop/Java Course]
└─$  /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java
-cp
/home/codebajju/.config/Code/User/workspaceStorage/bfc573db08a6
028bc4af4ccbd69156e8/redhat.java/jdt_ws/Java\
Course_71b83b3f/bin assignment_3
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on
-Dswing.aatext=true
Enter Income: 25000
Enter Category: WOMEN
Your Tax: 0
```

IDE INPUT :

```java
import java.util.Scanner;

public class assignment_3 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter Income: ");
        int income = sc.nextInt();
        sc.nextLine();
        System.out.print("Enter Category: ");
        String category = sc.nextLine();
        int tax = 0;
        if (category.equals("GENERAL")) {
            if (income <= 180000)
                tax = 0;
            else if (income <= 500000)
                tax = (income - 180000) / 10;
            else if (income <= 800000)
                tax = (500000 - 180000) / 10 + (income - 500000) / 20;
            else
                tax = (500000 - 180000) / 10 + (800000 - 500000) / 20 + (income - 800000) / 30;
            System.out.println("Your Tax: " + tax);
        } else if (category.equals("WOMEN")) {
            if (income <= 190000)
                tax = 0;
            else if (income <= 500000)
                tax = (income - 190000) / 10;
            else if (income <= 800000)
                tax = (500000 - 190000) / 10 + (income - 500000) / 20;
            else
                tax = (500000 - 190000) / 10 + (800000 - 500000) / 20 + (income - 800000) / 30;
            System.out.println("Your Tax: " + tax);
        } else
            System.out.println("WRONG CHOICE AND EXIT");

    }
}
```

OUTPUT PICTURE:

```
PROBLEMS  2    OUTPUT    DEBUG CONSOLE    TERMINAL

┌──(codebajju㊛kali)-[~/Desktop/Java Course]
└─$ cd /home/codebajju/Desktop/Java\ Course ; /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java -cp
a\ Course_71b83b3f/bin assignment_3
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
Enter Income: 25000
Enter Category: WOMEN
Your Tax: 0

┌──(codebajju㊛kali)-[~/Desktop/Java Course]
└─$ echo "More Input as example"
More Input as example

┌──(codebajju㊛kali)-[~/Desktop/Java Course]
└─$ cd /home/codebajju/Desktop/Java\ Course ; /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java -cp
a\ Course_71b83b3f/bin assignment_3
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
Enter Income: 2600000
Enter Category: WOMEN
Your Tax: 106000

┌──(codebajju㊛kali)-[~/Desktop/Java Course]
└─$ cd /home/codebajju/Desktop/Java\ Course ; /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java -cp
a\ Course_71b83b3f/bin assignment_3
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
Enter Income: 2690000
Enter Category: GENERAL
Your Tax: 110000

┌──(codebajju㊛kali)-[~/Desktop/Java Course]
└─$ cd /home/codebajju/Desktop/Java\ Course ; /usr/bin/env /usr/lib/jvm/java-11-openjdk-amd64/bin/java -cp
a\ Course_71b83b3f/bin assignment_3
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
Enter Income: 25000
Enter Category: GENERAL
Your Tax: 0

┌──(codebajju㊛kali)-[~/Desktop/Java Course]
└─$ ▉
```