Laboratory Exercises 9
Methods: Methods that Return a Value

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Date: 09/12/2021
Score:_____

1. Write a program that computes the Physical Activity Burns Calories. The input should be the weight of the user, number of hours spent on physical activity and type of physical activity performed. Use the following information for the computation:

Activities	Calories per Hour per Pound
Jumping Rope	3.8
Walking	2.4
House Cleaning	1.6
Running	2.5
Swimming	3.8

The formula to compute the total calories burned is **weight * hours * Calories per Hour per Pound**. Use method for the calculations. Your program should allow the user to repeat this calculation as often as the user wishes.

Write your design output here:

Physical Activities:

1. Jumping rope - 3.8

2. Walking - 2.4

3. House cleaning - 1.6

4. Running - 2.5

5. Swimming - 3.8

Enter your activity: 1

Enter your weight: 56

```
Enter the number of hours spent on physical activity: 2

The Calories Burn is: 425.59999999999997
```

Screenshot of program:

*Act_method.java

```
1  package GEYMNA;
2  import java.util.Scanner;
3  public class Act_method {
4     private static Scanner input;
5     public static void main(String [] args)
6     {
7        Scanner input = new Scanner(System.in);
8        double jumping_rope=3.8;
9        double walking=2.4;
10       double house_cleaning=1.6;
11       double running=2.5;
12       double swimming=3.8;
13
14       System.out.print("Physical Activities: \n1. Jumping rope - 3.8\n2. Walking - 2.4\n3. House cleaning - 1.6\n4. Running - 2.5\n5. Swimming - 3.8\nEnter your activity: ");
15       int PA = input.nextInt();
16
17       System.out.print("Enter your weight : ");
18       int weight = input.nextInt();
19       System.out.print("Enter the number of hours spent on physical activity: ");
20       int hours = input.nextInt();
21        int hours = input.nextInt();
22
23        double BC=total_bc(weight, hours);
24        switch (PA)
25        {
26        case 1:
27           System.out.println("The Calories Burn is: "+(jumping_rope*BC));
28           break;
29        case 2:
30           System.out.println("The Calories Burn is: "+ (walking*BC));
31           break;
32        case 3:
33           System.out.println("The Calories Burn is: " + (house_cleaning*BC));
34           break;
35        case 4:
36           System.out.println("The Calories Burn is: " + (running*BC));
37           break;
37        case 5:
38           System.out.println("The Calories Burn is: " + (swimming*BC));
39           break;
40        }
41
42        {
43
44        }
45     }
46     private static double total_bc(double w, double h) {
47        // TODO Auto-generated method stub
48        return w*h;
49     }
50  }
```

Screenshots of different sample output:

```
Physical Activities:
1. Jumping rope - 3.8
2. Walking - 2.4
3. House cleaning - 1.6
4. Running - 2.5
5. Swimming - 3.8
Enter your activity: 1
Enter your weight : 56
Enter the number of hours spent on physical activity   : 2
The Calories Burn is: 425.59999999999997
```

```
Physical Activities:
1. Jumping rope - 3.8
2. Walking - 2.4
3. House cleaning - 1.6
4. Running - 2.5
5. Swimming - 3.8
Enter your activity: 2
Enter your weight : 56
Enter the number of hours spent on physical activity: 2
The Calories Burn is: 268.8
```

```
Physical Activities:
1. Jumping rope - 3.8
2. Walking - 2.4
3. House cleaning - 1.6
4. Running - 2.5
5. Swimming - 3.8
Enter your activity: 3
Enter your weight : 56
Enter the number of hours spent on physical activity: 2
The Calories Burn is: 179.20000000000002
```

```
Physical Activities:
1. Jumping rope - 3.8
2. Walking - 2.4
3. House cleaning - 1.6
4. Running - 2.5
5. Swimming - 3.8
Enter your activity: 4
Enter your weight : 56
Enter the number of hours spent on physical activity: 2
The Calories Burn is: 280.0
```

```
Physical Activities:
1. Jumping rope - 3.8
2. Walking - 2.4
3. House cleaning - 1.6
4. Running - 2.5
5. Swimming - 3.8
Enter your activity: 5
Enter your weight : 56
Enter the number of hours spent on physical activity: 2
The Calories Burn is: 425.59999999999997
```