Lab 4

1. Calling Static Methods and Formatting Output

Pseudocode:

1)Get float weight(kg)

2)Get float height(cm)

3)Get float cost (dollars/m^2)

4) float bodySurfaceArea = weight^0.425 \* height^0.725 \* 0.0071845)

5) float totalcost = bodySurfaceArea \* cost

6) print totalcost

Test Case:

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case | Sample Data | Expected Result | Tested? |
| Superman | 70, 180, 37.5 | Body Surface Area = 1.88628  Spandex Cost = 70.74 | yes |
| Elastic Girl | 45, 150, 52.95 | Body Surface Area = 1.36977  Spandex Cost = 72.53 | yes |
| You | 80, 180,60 | Body Surface Area = 1.996421  Spandex Cost = 119.785 | yes |

1. Using Java Predefined String Class

Pseudocode:

1)Get String address

2)String length = string.length

3)String first = address.substring(0, first dot)

4)String name = address.substring(dot1, dot2)

5) String type= address.substring(dot2, endpoint)

7) Print length, first, name, type

Test Case:

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case | Sample Data | Expected Result | Tested? |
| 1 | [www.espn.com](http://www.espn.com) | Address length : 12  www  espn  com | yes |
| 2 | [www.chicagocubs.com](http://www.chicagocubs.com) | Address length:19  www  chicagocubs  com | yes |
| 3 | [www.google.com](http://www.google.com) | Address length:14  www  google  com | yes |