COS 463 ASSIGNMENT

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DEPARTMENT: COMPUTER SCIENCE

Assignment Part 1

(1) Write a java method to multiply 3 numbers and return the product

Solution

Code

```
public class Product {

// Method to find the product of three double inputs
public double productOfThreeNumbers(double num1, double num2, double num3) {
    return num1 * num2 * num3;
}

public static void main(String[] args) {
    // Create an object of the class Product
    Product obj = new Product();

    // Declare and initialise the three numbers
    double num1 = 2.0, num2 = 3.0, num3 = 6.9;

    // Call the method and store the result
    double result = obj.productOfThreeNumbers(num1, num2, num3);

    // Print the result along with the three numbers, formatted to two decimal places
        System.out.println("The product of the numbers " + num1 + ", " + num2 + ", " + num3 + " is: " +

String.format("%.2f", result));
}
```

Output

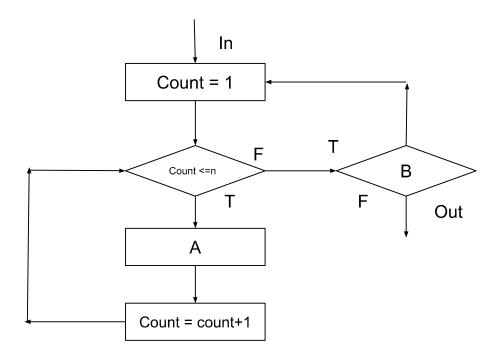
The product of the numbers 2.0, 3.0, 6.9 is: 41.40

Assignment Part 2

(1). Represent the following program segment using a flow control diagram (flowchart)

```
do
{
     For (int count = 1; count <= n; count++)
     {
     A;
     }
} while (B)</pre>
```

Solution



(2) Represent the same program segment using Nassi Sheidermann model

Solution

There is no direct Nassi-Sheidermann model for 'for' statement, we can rewrite the 'for' statement as the 'while' statement as follows:

From

To

