Student name: Nishchal Jatwani
Student ID: 229574040
Assignment Number: 1

Question: 01

```
// Declaration of the class
public class Assignment1Q1 {

	//Declaration of the main method
	public static void main(String[] args) {

		// Printing name on the terminal
		System.out.println("Hi Nishchal!");

		// Printing welcome message on the terminal
		System.out.println("Welcome to Programming World");
	}
}
```

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Question: 02 (Physics acceleration)

```
//Importing Scanner class
import java.util.*;

// Declaration of the class
public class Assignment1Q2 {

	// Declaration of the main method
	 public static void main(String[] args) {

		// Calling scanner class for keyboard input
		Scanner input = new Scanner(System.in);

		// Declaration for decimal input
		float v0, v1, t;
		// Printing prompt on screen: terminal
		System.out.print("Enter v0, v1, and t: ");

		// Input storage in the float variable
		v0 = input.nextFloat();
		v1 = input.nextFloat();
		t = input.nextFloat();

		// formula for average acceleration
		float averageAcc = (v1 - v0)/t;

		// Printing final average acceleration on screen:terminal
		System.out.println("The average acceleration is "+ averageAcc);

		//Closing scanner class
		input.close();
	}
}
```

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Question: 03 (Health Application: computing BMI)

```
//Importing Scanner class
import java.util.*;

//Declaration of the class
public class Assignment1Q3 {

	//Declaration of the main method
	public static void main(String[] args) {

		// Calling scanner class for keyboard input
		Scanner input = new Scanner(System.in);

		 // Declaration of constants for conversion
		final double LB_TO_KG ,INCH_TO_METER;
		LB_TO_KG = 0.45359237;
		INCH_TO_METER = 0.0254;

		// Printing the weight prompt on the screen: terminal
		System.out.print("Enter weight in pounds: ");

		// Storing the decimals in the variable
		float weightLb = input.nextFloat();
		float weightKg = (float)(weightLb * LB_TO_KG);

		// Printing the height prompt on the screen: terminal
		System.out.print("Enter height in inches: ");

		// Storing the decimals in the variable
		float heightINC = input.nextFloat();
		float heightMTR = (float)(heightINC * INCH_TO_METER);

		// formula for bmi
		float bmi = (float)((weightKg)/Math.pow(heightMTR,2));

		// Printing final BMI on screen:terminal
		System.out.println("BMI is "+ bmi);
		// Closing scanner class
		input.close();
	}
}
```