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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Assignment Number: 1

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();

}

}