Question 2

/\*

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\*/

package areaandvolume;

/\*\*

\*

\* @author William

\*/

import java.util.\*;

public class AreaAndVolume {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) {

// TODO code application logic here

//input的function

Scanner input = new Scanner(System.in);

//写input的地方

System.out.print("Enter the radius and length of a cylinder: ");

double radius = input.nextDouble();

double length = input.nextDouble();

//圆柱体公式

double area = radius \* radius \* 3.14159;

double volume = area \* length;

//Display出来的答案

System.out.println("The area is " + area);

System.out.println("The volume is " + volume);

}

}

--------------------------------------------------------------------------------------------------------------------------------

Question 3

/\*

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\*/

package convertingfeetintometers;

/\*\*

\*

\* @author William

\*/

import java.util.\*;

public class ConvertingFeetIntoMeters {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) {

// TODO code application logic here

Scanner input = new Scanner(System.in);

System.out.print("Enter a value for feet: ");

double feet = input.nextDouble();

double meters = feet \* 0.305 ;

System.out.println(feet + " feet is " + meters + " meters");

}

}

------------------------------------------------------------------------------------------------------------------------------------------

Question 4 (a)

/\*

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\*/

package financailapplicationpayroll;

/\*\*

\*

\* @author William

\*/

import java.util.\*;

public class FinancailApplicationPayroll {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) {

// TODO code application logic here

Scanner input = new Scanner(System.in);

System.out.print("Enter employee's name: ");

String name = input.next();

System.out.print("Enter number of hours worked in a week: ");

float hour = input.nextFloat();

System.out.print("Enter hourly pay rate: ");

float rate = input.nextFloat();

System.out.print("Enter federal tax withholding rate: ");

float federaltax = input.nextFloat();

System.out.print("Enter state tax withholding rate: ");

float statetax = input.nextFloat();

float salary = hour \* rate;

float federal = (federaltax) \* salary;

float state = (statetax) \* salary;

float total = federal + state;

float net = salary - total;

System.out.println("Employee Name: " + name);

System.out.println("Hours Worked: " + hour);

System.out.println("Pay Rate: " + rate);

System.out.println("Gross Pay: " + salary);

System.out.println("Deductions:");

System.out.println(" Federel Withholding: " + federal);

System.out.println(" State Withholding: " + state);

System.out.println(" Total Deduction: " + total);

System.out.println("Net Pay: " + net);

}

}

Question 4 (b)

/\*

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\*/

package financailapplicationpayrolldialogbox;

/\*\*

\*

\* @author William

\*/

import javax.swing.JOptionPane;

public class FinancailApplicationPayrollDiaLogBox {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) {

// TODO code application logic here

String name = JOptionPane.showInputDialog(null,"Enter Employee's name: ","Input",JOptionPane.QUESTION\_MESSAGE);

String hour = JOptionPane.showInputDialog(null,"Enter number of hour worked in a week: ","Input",JOptionPane.QUESTION\_MESSAGE);

double shour = Double.parseDouble(hour);

String salary = JOptionPane.showInputDialog(null,"Emter hourly pay rate: ","Input",JOptionPane.QUESTION\_MESSAGE);

double salarys = Double.parseDouble(salary);

String federal = JOptionPane.showInputDialog(null,"Enter Federal tax withholding rate: ","Input",JOptionPane.QUESTION\_MESSAGE);

double federals = Double.parseDouble(federal);

String state = JOptionPane.showInputDialog(null,"Enter state tax withholding rate: ","Input",JOptionPane.QUESTION\_MESSAGE);

double states = Double.parseDouble(state);

double grossPay = shour \* salarys;

double FederalWithholding = federals \* grossPay;

double StateWithholding = states \* grossPay;

double Total = FederalWithholding + StateWithholding;

double NetPay = grossPay - Total;

String output=( "Employee Name: " + name +

"\nHours Worked: " + shour +

"\nPay Rate: " + salarys +

"\nGross Pay: " + grossPay +

"\nDeductions: " +

"\n Federal Withholding(20.0%): " + FederalWithholding +

"\n State Withholding(9.0%): " + StateWithholding +

"\n Total Deduction: " + Total +

"\nNet pay: " + NetPay);

JOptionPane.showMessageDialog(null, output,"Employee Payroll Info",1);

}

}

-------------------------------------------------------------------------------------------------------------------------------------

Question 5

/\*

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\*/

package comutingbmi;

/\*\*

\*

\* @author William

\*/

import java.util.\*;

public class ComutingBMI {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) {

// TODO code application logic here

Scanner input = new Scanner(System.in);

System.out.print("Enter weight in pounds: ");

double pounds = input.nextDouble();

System.out.print("Enter height in inches: ");

double inches= input.nextDouble();

double weight = pounds \* 0.45359237;

double height = inches \* 0.0254;

double BMI = weight / (height\*height);

System.out.println("BMI is " + BMI);

}

}