Q1.A

package Q1.a;  
  
import java.text.DecimalFormat;  
import java.util.Scanner;  
  
public class square {  
 public static void main(String[] args) {  
 double B,A,C;  
 DecimalFormat df = new DecimalFormat("#.##");  
 Scanner sc = new Scanner(System.*in*);  
  
 System.*out*.println("Enter the value of A: ");  
 A=sc.nextInt();  
  
 System.*out*.println("Enter the value of B: ");  
 B=sc.nextInt();  
  
 System.*out*.println("Enter the value of C: ");  
 C=sc.nextInt();  
  
 System.*out*.println(df.format(Math.*sqrt*(Math.*pow*(B,2)+4\*A\*C)));  
 }  
  
}

A screen shot of a computer

AI-generated content may be incorrect.

Q1.B

package Q1.b.Q1;  
  
import java.text.DecimalFormat;  
import java.util.Scanner;  
  
public class b {  
 public static void main(String[] args) {  
  
 Scanner sc = new Scanner(System.*in*);  
 DecimalFormat df = new DecimalFormat("0.00");  
  
 double X,Y,Z,result;  
  
 System.*out*.println("Enter the value of X: ");  
 X = sc.nextDouble();  
  
 System.*out*.println("Enter the value of Y:");  
 Y = sc.nextDouble();  
  
 Z = 4\*Math.*pow*(Y,3);  
 result = Math.*sqrt*(X+Z);  
  
 System.*out*.println("The Square root is:" +df.format(result));  
  
 System.*out*.println();  
 }  
}

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AI-generated content may be incorrect.

Q1.C

package Q1.c.q1;  
  
import java.text.DecimalFormat;  
import java.util.Scanner;  
  
public class c {  
 public static void main(String[] args) {  
  
 double x,y,product;  
 DecimalFormat df = new DecimalFormat("0.00");  
  
 Scanner sc = new Scanner(System.*in*);  
  
 System.*out*.println("Enter value for x:");  
 x = sc.nextDouble();  
  
 System.*out*.println("Enter value for y:");  
 y = sc.nextDouble();  
  
 product = x\*y;  
 double cuberoot=Math.*cbrt*(product);  
  
 System.*out*.println("Cuberoot is: "+df.format(cuberoot));  
  
 }  
}

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AI-generated content may be incorrect.

Q1.D

package Q1.d.Q1;  
  
import java.text.DecimalFormat;  
import java.util.Scanner;  
  
public class d {  
 public static void main(String[] args) {  
  
 double r;  
 final double PI=3.14;  
 DecimalFormat df = new DecimalFormat("0.00");  
  
 Scanner sc = new Scanner(System.*in*);  
  
 System.*out*.print("Enter the radius of a circle: ");  
 r = sc.nextDouble();  
  
 double area= PI\*r\*r;  
 System.*out*.println("The area of a circle is "+area);  
  
 }  
}

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AI-generated content may be incorrect.

Q2.

package Q2;  
  
import java.nio.DoubleBuffer;  
import java.text.DecimalFormat;  
import java.util.Scanner;  
  
public class q2 {  
 public static void main(String[] args) {  
  
 double cm,feet,inches;  
 DecimalFormat df = new DecimalFormat("0.00");  
 Scanner sc = new Scanner(System.*in*);  
  
 System.*out*.println("Enter the Value in CM :");  
 cm = sc.nextDouble();  
  
 //1inch= 2.54cm  
 inches= cm/2.54;  
 feet= cm/30.48;  
  
 System.*out*.println("After convert, Inches:"+df.format(inches));  
 System.*out*.println("After convert, Feets:"+df.format(feet));  
 }  
}

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AI-generated content may be incorrect.

Q3.

package Q3;  
  
import java.text.DecimalFormat;  
import java.util.Scanner;  
  
public class q3 {  
 public static void main(String[] args) {  
  
 double celcius, fahrenheit;  
 DecimalFormat df = new DecimalFormat("#.##");  
 Scanner sc = new Scanner(System.*in*);  
  
 System.*out*.println("Enter the temperature in Celcius:");  
 celcius = sc.nextDouble();  
  
 fahrenheit = (1.8\*celcius)+32;  
 System.*out*.println("After converting to Fahrenheit: "+df.format(fahrenheit));  
 }  
}

A screen shot of a computer

AI-generated content may be incorrect.

Q4.

package Q4;  
  
import java.text.DecimalFormat;  
import java.util.Scanner;  
  
public class q4 {  
 public static void main(String[] args) {  
  
 double weight,calories;  
 Scanner sc = new Scanner(System.*in*);  
 DecimalFormat df = new DecimalFormat("0.00");  
  
 System.*out*.println("Enter the Weight in Pounds: ");  
 weight = sc.nextDouble();  
  
 calories = weight \* 19;  
  
 System.*out*.println("The need of Calories for Body: "+df.format(calories));  
 }  
}

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AI-generated content may be incorrect.

Q5.

package Q6;  
  
import java.text.DecimalFormat;  
import java.util.Scanner;  
  
public class q5 {  
 public static void main(String[] args) {  
  
 double farhenheit,celsius;  
 Scanner sc = new Scanner(System.*in*);  
 DecimalFormat df = new DecimalFormat("###.#");  
  
 System.*out*.println("Enter the Temperature in Fahrenheit:");  
 farhenheit = sc.nextDouble();  
  
 celsius = (5.0/9)\*(farhenheit-32);  
 System.*out*.println("Temperature in Celsius: "+df.format(celsius));  
 }  
}

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AI-generated content may be incorrect.

package Q6;  
  
import java.text.DecimalFormat;  
import java.time.LocalDate;  
import java.util.Scanner;  
  
public class q6 {  
 public static void main(String[] args) {  
  
 int year,age;  
 DecimalFormat df = new DecimalFormat("0.00");  
 Scanner sc = new Scanner(System.*in*);  
  
  
 System.*out*.println("Enter the year born : ");  
 year = sc.nextInt();  
  
 int currentyear= LocalDate.*now*().getYear();  
 age=currentyear-year;  
  
 System.*out*.println("You were Born in "+ year + " and will be (are) " + age +" years. ");  
 }  
}

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AI-generated content may be incorrect.

Q7.

package Q7;  
  
import java.text.DecimalFormat;  
import java.util.Scanner;  
  
import static java.lang.Math.*pow*;  
  
public class q7 {  
 public static void main(String[] args) {  
  
 Scanner sc = new Scanner(System.*in*);  
 DecimalFormat df = new DecimalFormat("0.00");  
 double weight,height,bmi;  
  
 System.*out*.println("Enter the Weight in KG:");  
 weight = sc.nextDouble();  
  
 System.*out*.println("Enter the Height in CM:");  
 height = sc.nextDouble();  
  
 double H= (height/100);  
 double h=Math.*pow*(H,2);  
 bmi = weight/h;  
 System.*out*.println("BMI is "+df.format(bmi));  
   
}}

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AI-generated content may be incorrect.

Q8.

package Q8;  
  
import java.text.DecimalFormat;  
import java.util.Scanner;  
  
public class q8 {  
 public static void main(String[] args) {  
 Scanner sc = new Scanner(System.*in*);  
 DecimalFormat df = new DecimalFormat("0.00");  
  
 final double PI=3.14;  
 double r,volume;  
  
 System.*out*.println("Enter the radius of a sphere in centimeters:");  
 r = sc.nextDouble();  
  
 double R=Math.*pow*(r,3);  
  
 volume=(4/3)\*(PI\*R);  
 System.*out*.println("Volume of a sphere: "+df.format(volume));  
 }  
}

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AI-generated content may be incorrect.

Q9.  
package Q9;  
  
import java.text.DecimalFormat;  
import java.util.Scanner;  
  
public class q9 {  
 public static void main(String[] args) {  
  
 Scanner sc = new Scanner(System.*in*);  
 DecimalFormat df = new DecimalFormat("0.00");  
 double P,R,N;  
  
 System.*out*.println("Enter the invest Dollars:");  
 P = sc.nextInt();  
 System.*out*.println("Enter the invest Rate:");  
 R = sc.nextInt();  
 System.*out*.println("Enter the investment Years");  
 N = sc.nextInt();  
  
 double A=P \* Math.*pow*((1 + (R / 100)),N);//A is the interest with deposit money  
 double interest=A-P;  
 System.*out*.println("Amount after "+N+ " years:"+N+df.format(A));  
 System.*out*.println("Total interest: "+df.format(interest));  
  
 }  
}

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AI-generated content may be incorrect.

Q10.

package Q10;  
  
import java.text.DecimalFormat;  
import java.util.Scanner;  
  
public class q10 {  
 public static void main(String[] args) {  
  
 Scanner sc = new Scanner(System.*in*);  
 DecimalFormat df = new DecimalFormat("0.00");  
 double loan\_Amount, Annual\_intrest\_rate,loan\_period;  
 final int months\_in\_year=12;  
  
 System.*out*.println("Enter the loan amount: ");  
 loan\_Amount = sc.nextDouble();  
 System.*out*.println("Enter the Annual interest rate: ");  
 Annual\_intrest\_rate = sc.nextDouble();  
 System.*out*.println("Enter the loan period in Months: ");  
 loan\_period = sc.nextDouble();  
  
 //monthly intrestrate  
 double monthly\_interest = Annual\_intrest\_rate/100.0/months\_in\_year;  
 System.*out*.println("The monthly interest is: " + df.format(monthly\_interest));  
  
 //number of payements  
 double numberofpayemnts=loan\_period\*months\_in\_year;  
 System.*out*.println("The Numebr of Payemnts is: " + df.format(numberofpayemnts));  
  
 //monthly paymnet  
 double monthly\_payment= (loan\_Amount\*monthly\_interest)/(1-Math.*pow*(1/(1+Annual\_intrest\_rate),numberofpayemnts));  
 System.*out*.println("The Monthly Payment is: " + df.format(monthly\_payment));  
  
 //total payemnt  
 double total\_payment=monthly\_payment\*numberofpayemnts;  
 System.*out*.println("The total payment is: " + df.format(total\_payment));  
 }  
}