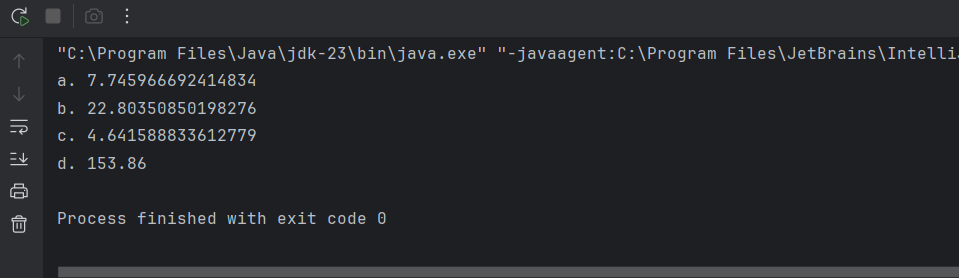
1.

package Q\_01;  
import java.lang.Math;  
public class Q\_01 {  
 public static void main(String[] args) {  
 int A = 5;  
 int B = 10;  
 int C = 2;  
 int X = 20;  
 int Y = 5;  
 int R = 7;  
 final double Pi = 3.14;  
 System.*out*.println("a. " + Math.*sqrt*((B \* B) - 4 \* A \* C));  
 System.*out*.println("b. " + Math.*sqrt*(X + 4 \* (Y \* Y \* Y)));  
 System.*out*.println("c. " + Math.*cbrt*(X\*Y));  
 System.*out*.println("d. " + Pi\*R\*R);  
 }  
}



2.

package Q\_02;  
import java.util.Scanner;  
public class Q\_02 {  
 public static void main(String[] args) {  
 Scanner scan = new Scanner(System.*in*);  
 System.*out*.print("Enter the value in inches : ");  
 double inches = scan.nextDouble();  
 double cm = inches \* 2.54;  
 System.*out*.println(inches + " inches --> " + cm + " cm.");  
 }  
}

A screen shot of a computer

AI-generated content may be incorrect.

3.

package Q\_03;  
import java.util.Scanner;  
public class Q\_03 {  
 public static void main(String[] args) {  
 Scanner scan = new Scanner(System.*in*);  
 System.*out*.print("Enter the value in Temperature (°C): ");  
 double celsius = scan.nextDouble();  
 double fahrenheit = (celsius \* 1.8) + 32;  
 System.*out*.println(celsius + "°C --> " + String.*format*("%.2f" ,fahrenheit) + "°F");  
 }  
}

A computer screen with white text

AI-generated content may be incorrect.

4.

package Q\_04;  
import java.util.Scanner;  
public class Q\_04 {  
 public static void main(String[] args) {  
 Scanner reader = new Scanner(System.*in*);  
 System.*out*.print("Enter Your Weight (pound): ");  
 double pound = reader.nextDouble();  
 double calories = pound \* 19;  
 System.*out*.println("You Need to " + calories + " calories per day.");  
 }  
}

A computer screen shot of a program

AI-generated content may be incorrect.

5.

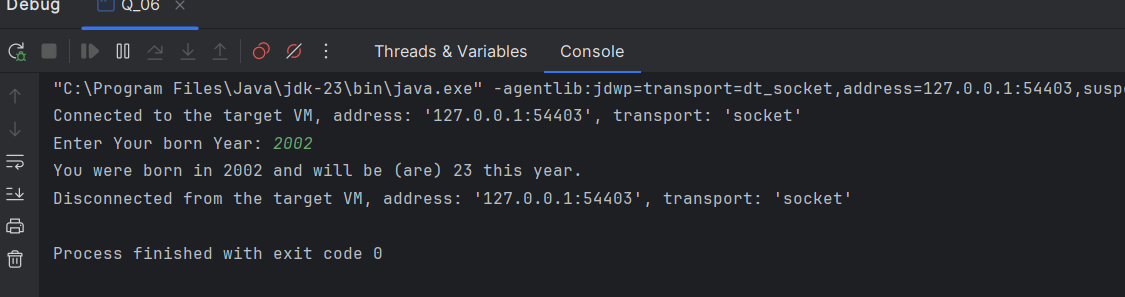
package Q\_05;  
import java.util.Scanner;  
public class Q\_05 {  
 public static void main(String[] args) {  
 Scanner scan = new Scanner(System.*in*);  
 System.*out*.print("Enter the value in Temperature (°F): ");  
 double fahrenheit = scan.nextDouble();  
 double celsius = (fahrenheit - 32) \* 5/9;  
 System.*out*.println(String.*format*("%.2f°F --> %.2f°C", fahrenheit, celsius));  
 }  
}

A computer screen shot of a program

AI-generated content may be incorrect.

6.

package Q\_06;  
import java.util.Scanner;  
import java.time.Year;  
public class Q\_06 {  
 public static void main(String[] args) {  
 Scanner scan = new Scanner(System.*in*);  
 System.*out*.print("Enter Your born Year: ");  
 int birthYear = scan.nextInt();  
 int CurrentYear = Year.*now*().getValue();  
 int age = CurrentYear - birthYear;  
 System.*out*.println("You were born in " + birthYear + " and will be (are) " + age + " this year.");  
 }  
}



7.

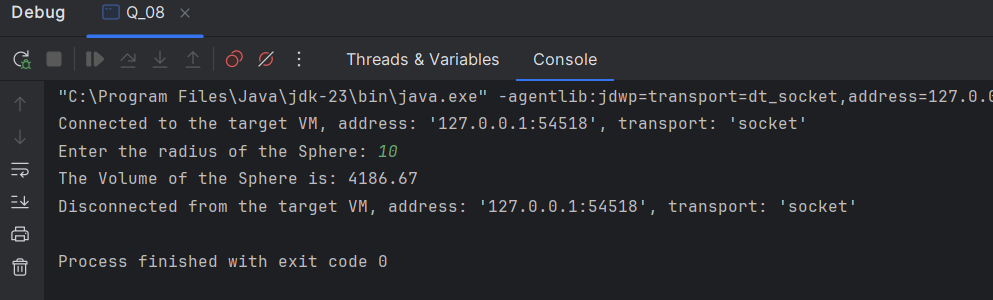
package Q\_07;  
import java.util.Scanner;  
public class Q\_07 {  
 public static void main(String[] args) {  
 Scanner scan = new Scanner(System.*in*);  
 System.*out*.print("Enter your weight in kg: ");  
 int weight = scan.nextInt();  
 System.*out*.print("Enter your height in cm: ");  
 int height = scan.nextInt();  
 double bmi = weight / Math.*pow*(height / 100.0, 2);  
 System.*out*.println("Your BMI is: " + String.*format*("%.2f", bmi));  
 if (bmi < 18.5) {  
 System.*out*.println("Your weight is low.");  
 } else if (bmi < 25) {  
 System.*out*.println("You are normal.");  
 } else if (bmi < 30) {  
 System.*out*.println("Your weight is high.");  
 } else {  
 System.*out*.println("You are obese.");  
 }  
 }  
}

A screen shot of a computer

AI-generated content may be incorrect.

8.

import java.util.Scanner;  
public class Q\_08 {  
 public static void main(String[] args) {  
 Scanner scan = new Scanner(System.*in*);  
 System.*out*.print("Enter the radius of the Sphere: ");  
 double radius = scan.nextDouble();  
 double PI = 3.14;  
 double volume = (4.0/3.0) \* PI \* Math.*pow*(radius, 3);  
 System.*out*.println("The Volume of the Sphere is: " + String.*format*("%.2f", volume));  
 }  
}



9.

package Q\_09;  
import java.util.Scanner;  
public class Q\_09 {  
 public static void main(String[] args) {  
 Scanner scan = new Scanner(System.*in*);  
 System.*out*.print("Enter the amount of investment: ");  
 double investment = scan.nextDouble();  
 System.*out*.print("Enter the annual interest rate in percentage: ");  
 double rate = scan.nextDouble();  
 System.*out*.print("Enter the number of years: ");  
 int years = scan.nextInt();  
 double InvestmentGrows = investment \* Math.*pow*((1 + rate / 1200), years \* 12);  
 System.*out*.println("The Investment value after " + years + " years is: " + String.*format*("%.2f", InvestmentGrows) + "$");  
 }  
}

A screen shot of a computer

AI-generated content may be incorrect.

10.

package Q\_10;  
import java.util.Scanner;  
public class Q\_10 {  
 public static void main(String[] args) {  
 Scanner scan = new Scanner(System.*in*);  
 System.*out*.print("Enter Loan Amount: ");  
 double loan = scan.nextDouble();  
 System.*out*.print("Enter Annual Interest Rate: ");  
 double rate = scan.nextDouble();  
 System.*out*.print("Enter Loan Period (year): ");  
 double period = scan.nextInt();  
 double monthInerestRate = rate/100.0/12;  
 double noOfPayment = period \* 12;  
 double monthPayment = (loan \* monthInerestRate)/(1-Math.*pow*(1/(1+monthInerestRate),noOfPayment));  
 double totalPayment = monthPayment \* noOfPayment;  
 System.*out*.println("Monthly Payment: Rs:" + String.*format*("%.2f",monthPayment));  
 System.*out*.println("Annual Payment: Rs:" + String.*format*("%.2f",totalPayment));  
 }  
}

A screen shot of a computer

AI-generated content may be incorrect.