Q1:

Code:

package Q\_01;  
  
public class q1 {  
  
 public static void main(String[] args) {  
 double result\_a = Math.*sqrt*(B \* B + 4 \* A \* C);  
 double result\_b = Math.*sqrt*(X + 4 \* Math.*pow*(Y, 3));  
 double result\_c = Math.*cbrt*(X \* Y);  
 double result\_d= Math.*PI* \* Math.*pow*(radius, 2);  
  
  
 }

A screen shot of a computer

AI-generated content may be incorrect.

Q2:

Code:

package Q\_02;  
  
import java.util.Scanner;  
  
public class q2 {  
 public static void main(String[] args) {  
  
  
 Scanner scanner = new Scanner(System.*in*);  
 System.*out*.print("Enter centimeters: ");  
 double cm\_value= scanner.nextDouble();  
  
 double inches = cm\_value/ 2.54;  
 int feet = (int) (inches / 12);  
 double remainingInches = inches % 12;  
  
 System.*out*.println(" value is:" + feet + " feet " + remainingInches + " inches.");  
  
  
  
 }  
 }  
  
Output:A screen shot of a computer

AI-generated content may be incorrect.

Q3:

Code:

package Q\_03;  
import java.util.Scanner;  
public class q3 {  
  
 public static void main(String[] args) {  
 Scanner x = new Scanner(System.*in*);  
 System.*out*.print("Enter Celsius value: ");  
 double celsius = x.nextDouble();  
  
 double fahrenheit = (1.8 \* celsius) + 32;  
 System.*out*.println(" Fahrenheit value: " + fahrenheit);  
  
  
   
 }  
  
  
}

Output:

A screenshot of a computer

AI-generated content may be incorrect.

Q4:

Code:

package Q\_04;  
import java.util.Scanner;  
  
public class q4 {  
  
 public static void main(String[] args) {  
 Scanner x = new Scanner(System.*in*);  
  
 System.*out*.print("Enter the weight : ");  
 double bodyWeight = x.nextDouble();  
  
 double calories = bodyWeight \* 19;  
  
 System.*out*.println("number of calories for person needed per oneday:"+calories);  
  
  
  
 }  
 }

Output:

A screenshot of a computer program

AI-generated content may be incorrect.

Q05:

Code:

package Q\_05;  
  
import java.util.Scanner;  
public class q5 {  
  
 public static void main(String[] args) {  
 Scanner x= new Scanner(System.*in*);  
  
 System.*out*.print("Enter temperature in Fahrenheit: ");  
 double fahrenheit = x.nextDouble();  
  
  
 double celsius = (5.0 / 9) \* (fahrenheit - 32);  
  
 System.*out*.println("Temperature in Celsius: " + celsius);  
  
  
  
 }  
 }

Output:

A screenshot of a computer

AI-generated content may be incorrect.

Q06:

Code:

package Q\_06;  
import java.util.Scanner;  
public class q6 {  
  
 public static void main(String[] args) {  
 Scanner x= new Scanner(System.*in*);  
  
 System.*out*.print("Enter birth year: ");  
 int birthYear = x.nextInt();  
  
 int age = 2025 - birthYear;  
  
 System.*out*.println("You were born in " + birthYear + " and are " + age + " years old.");  
  
  
 }  
 }

Output:

A screenshot of a computer program

AI-generated content may be incorrect.

Q07:

Code:

package Q\_07;  
import java.util.Scanner;  
public class q7 {  
  
  
 public static void main(String[] args) {  
 Scanner x = new Scanner(System.*in*);  
  
  
 System.*out*.print("Enter your weight in kg: ");  
 double weight = x.nextDouble();  
  
 System.*out*.print("Enter your height in cm: ");  
 int height = x.nextInt();  
  
  
 double height\_meter = height / 100.0;  
 double bmi = weight / (height\_meter \* height\_meter);  
  
 System.*out*.println("BMI is: " + bmi);  
  
  
  
 }  
 }

output;

A screenshot of a computer program

AI-generated content may be incorrect.

Q8:

Code;

package Q\_08;  
import java.util.Scanner;  
public class q8 {  
  
 public static void main(String[] args) {  
 Scanner x = new Scanner(System.*in*);  
  
  
 System.*out*.print("Enter the radius : ");  
 double radius = x.nextDouble();  
  
  
 double volume = (4.0 / 3) \* Math.*PI* \* Math.*pow*(radius, 3);  
 System.*out*.println("The volume of the sphere is: " + volume);  
  
  
  
 }  
 }

output:

A screenshot of a computer

AI-generated content may be incorrect.

Q09:

Code:

package Q\_09;  
import java.util.Scanner;  
public class q9 {  
  
 public static void main(String[] args) {  
 Scanner x= new Scanner(System.*in*);  
  
  
  
 System.*out*.print(" Give initial investment amount (P): ");  
 double P = x.nextDouble();  
  
 System.*out*.print("Give annual interest rate (R) in %: ");  
 double R = x.nextDouble();  
  
 System.*out*.print("Give Enter number of years (N): ");  
 int N = x.nextInt();  
  
 double finalAmount = P \* Math.*pow*(1 + (R / 100), N);  
 System.*out*.println("The amount after relevant years: $" + finalAmount);  
  
 }  
 }

Output:

A screen shot of a computer

AI-generated content may be incorrect.

Q10:

Code:

package Q\_10;  
import java.util.Scanner;  
public class q10 {  
  
  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
 System.*out*.print("Enter loan amount: ");  
 double loan = scanner.nextDouble();  
  
 System.*out*.print("Enter annual interest rate (%): ");  
 double rate = scanner.nextDouble() / 100 / 12;   
   
  
 System.*out*.print("Enter loan period (years): ");  
 int years = scanner.nextInt();  
 int months = years \* 12;   
   
 double monthlyPayment = (loan \* rate) / (1 - Math.*pow*(1 + rate, -months));  
 System.*out*.printf("Monthly Payment: $%.2f%n", monthlyPayment);  
   
   
 }  
 }

A screen shot of a computer

AI-generated content may be incorrect.