Q 01.

Code:

package Q\_01;  
  
public class Q\_1 {  
 public static void main(String[] args) {  
 int A=10;  
 int B=20;  
 int C=30;  
 int X=40;  
 int Y=50;  
 int r=7;  
 double result1=Math.*sqrt*(Math.*pow*(B,2)+4\*A\*C);  
 double result2=Math.*sqrt*(X+4\*Math.*pow*(Y,3));  
 double result3=Math.*cbrt*(X\*Y);  
 double area=Math.*PI*\*Math.*pow*(r,2);  
 System.*out*.println(result1);  
 System.*out*.println(result2);  
 System.*out*.println(result3);  
 System.*out*.println(area);  
 }  
}

Output:

A screen shot of a computer

AI-generated content may be incorrect.

Q 02.

Code:

package Q\_02;  
  
import java.util.Scanner;  
  
public class Q\_2 {  
 public static void main(String[] args) {  
 Scanner scan=new Scanner(System.*in*);  
 System.*out*.println("Enter the values in centimeters");  
 float value= scan.nextFloat();  
 float outputInch = (float) (value/2.54);  
 float outputFeet= (float) (outputInch/12);  
 System.*out*.println(outputInch);  
 System.*out*.println(outputFeet);  
   
 }  
}

Output:

A black screen with a white border

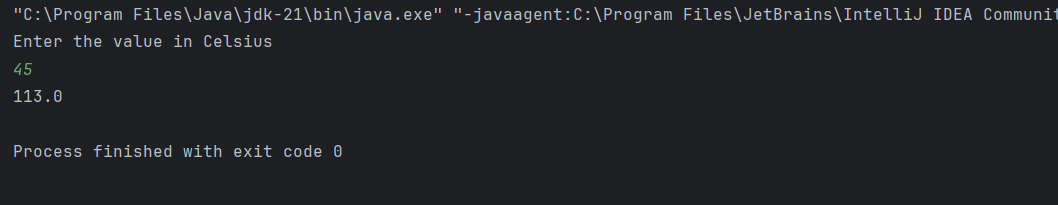
AI-generated content may be incorrect.

Q 03.

Code:

package Q\_03;  
  
import java.util.Scanner;  
  
public class Q\_3 {  
 public static void main(String[] args) {  
 Scanner scan=new Scanner(System.*in*);  
 System.*out*.println("Enter the value in Celsius");  
 int c= scan.nextInt();  
 double output= (1.8\*c)+32;  
 System.*out*.println(output);  
   
 }  
  
}

Output:



Q 04.

Code:

package Q\_04;  
import java.util.Scanner;  
  
public class Q\_4 {  
 public static void main(String[] args) {  
 Scanner scan=new Scanner(System.*in*);  
 System.*out*.println("Enter your bodyWeight");  
 float W= scan.nextFloat();  
 double calorie=(W\*19);  
 System.*out*.println(calorie);  
 }  
}

Output:

A screen shot of a computer

AI-generated content may be incorrect.

Q 05.

Code:

package Q\_05;  
  
import java.util.Scanner;  
  
public class Q\_5 {  
 public static void main(String[] args) {  
 Scanner scan=new Scanner(System.*in*);  
 System.*out*.println("Enter the values in fahrenheit");  
 double fahrenheit= scan.nextDouble();  
 double celsius= (fahrenheit-32)\*5/9;  
 System.*out*.println(celsius);  
  
 }  
}

Output:

A screen shot of a computer

AI-generated content may be incorrect.

Q 06.

Code:

package Q\_06;  
  
import java.util.Scanner;  
import java.time.Year;  
  
public class Q\_6 {  
 public static void main(String[] args) {  
 Scanner scan=new Scanner(System.*in*);  
 int currentYear= Year.*now*().getValue();  
 System.*out*.println("Enter your year of Birth");  
 int birthYear= scan.nextInt();  
 int age= (currentYear-birthYear);  
 System.*out*.println("You were born in " + birthYear + " and will be(are) " + age + " this year");  
  
 }  
}

Output:

A computer screen shot of a black screen

AI-generated content may be incorrect.

Q 07.

Code:

package Q\_07;  
  
import java.util.Scanner;  
  
public class Q\_7 {  
 public static void main(String[] args) {  
 Scanner scan=new Scanner(System.*in*);  
 System.*out*.println("Enter your weight in kg");  
 double weight=scan.nextDouble();  
 System.*out*.println("Enter your height in centimeter");  
 double height=scan.nextDouble();  
 double bmi=weight / Math.*pow*(height / 100.0,2);  
 System.*out*.println(bmi);  
 if(bmi>=20 && bmi<=25) {  
 System.*out*.println("normal");  
 }  
 }  
}

Output:

A computer screen shot of a black screen

AI-generated content may be incorrect.

Q 08.

Code:

package Q\_08;  
  
import java.util.Scanner;  
public class Q\_8 {  
 public static void main(String[] args) {  
 Scanner scan=new Scanner(System.*in*);  
 System.*out*.println("Enter the radius of sphere");  
 double radius=scan.nextDouble();  
 double volume= (4.0/3.0)\*Math.*PI*\*Math.*pow*(radius,3);  
 System.*out*.println("Volume of sphere is: " +volume);  
 }  
}

Output:

A screenshot of a computer program

AI-generated content may be incorrect.

Q 09.

Code:

package Q\_09;  
  
import java.util.Scanner;  
public class Q\_9 {  
 public static void main(String[] args) {  
 Scanner scan=new Scanner(System.*in*);  
 System.*out*.println("invest dollars:");  
 double P=scan.nextDouble();  
 System.*out*.println("Enter the percentage:");  
 double R=scan.nextDouble();  
 System.*out*.println("how many years:");  
 int N=scan.nextInt();  
 double Amount=P\*(1 + Math.*pow*((R/100),N));  
 System.*out*.println("amount is: " +Amount);  
 }  
}

Output:

A computer screen shot of a black screen

AI-generated content may be incorrect.

Q 10.

Code:

package Q\_10;  
  
import java.util.Scanner;  
public class Q\_10 {  
 public static void main(String[] args) {  
 final int MONTH\_IN\_YEAR=12;  
 Scanner scanner=new Scanner(System.*in*);  
 System.*out*.println("Enter the loan amount:");  
 double amount= scanner.nextDouble();  
 System.*out*.println("Enter the annual interest rate: ");  
 double annualInterestRate=scanner.nextDouble();  
 System.*out*.println("Enter the loan period: ");  
 int loanPeriod=scanner.nextInt();  
 double monthlyInterestRate=annualInterestRate / 100.0 / MONTH\_IN\_YEAR;  
 int numberOfPayment= loanPeriod \* MONTH\_IN\_YEAR;  
 double monthlyPayment= (amount \* monthlyInterestRate) / (1-Math.*pow*(1/(1+monthlyInterestRate),numberOfPayment));  
 double totalPayment= monthlyPayment \* numberOfPayment;  
 System.*out*.println("Monthly Payment : " +monthlyPayment);  
 System.*out*.println("Total Payment: " +totalPayment);  
 }  
}

Output:

A computer screen shot of a black screen

AI-generated content may be incorrect.