1. **Question: Create a Java program that takes two integers as input from the user and prints their sum.**

mport java.util.Scanner;  
  
public class practice {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
 System.*out*.println("give a value of x ");  
 int x = scanner.nextInt();  
 scanner.nextLine();

System.*out*.println("give a value of y ");  
 int y = scanner.nextInt();  
 scanner.nextLine();

int z = x+y;

System.*out*.println("the value of the above " + z);

}

}

1. **Question: Write a Java program that calculates the area of a circle. Take the radius as input from the user (use Math.pow).**

import java.util.Scanner;  
public class practice {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
   
 System.*out*.println("the value of r");  
 double r = scanner.nextDouble();  
 scanner.nextLine();  
 double area = (22.0/7.0)\* Math.*pow*(r,2);  
 System.*out*.println("the answer is " + area );  
 }  
}

1. **Question: Given a temperature in Celsius, write a Java program to convert it to Fahrenheit. Take the Celsius temperature as input from the user (use the conversion formula: F = (C \* 9/5) + 32).**

import java.util.Scanner;  
public class practice {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
 System.*out*.println("enter temperature in celsius");  
 double c = scanner.nextDouble();  
 scanner.nextLine();  
 double f = (c\*9.0/5.0)+ 32;  
 System.*out*.println("the answer is " + f );  
 }  
}

1. **Question: Create a Java program that asks the user for their name and age, and then prints a message with their name and age.**

import java.util.Scanner;  
public class practice {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
 System.*out*.println("what is your name");  
 String name= scanner.nextLine() ;  
  
 System.*out*.println("what is your age" );  
 int age= scanner.nextInt();  
 scanner.nextLine();  
  
 System.*out*.println("hello " + name + " your age is " + age);  
 }  
}

1. **Question: Write a Java program that calculates the volume of a rectangular prism. Take the length, width, and height as inputs from the user.**

import java.util.Scanner;  
public class practice {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
 System.*out*.println("length?");  
 double length= scanner.nextDouble();  
 scanner.nextLine();  
  
 System.*out*.println("width?");  
 Double width= scanner.nextDouble();  
 scanner.nextLine();  
  
 System.*out*.println("Height");  
 Double height= scanner.nextDouble();  
 scanner.nextLine();  
  
 double volume=(length\*width\*height);  
  
 System.*out*.println("the volume of the prism is " + volume);  
 }  
}

1. **Question: Given two floating-point numbers, write a Java program that swaps their values without using a temporary variable.**

import java.util.Scanner;  
  
public class practice {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
 System.*out*.println("enter the value of a");  
 double a = scanner.nextDouble();  
 scanner.nextLine();  
  
 System.*out*.println("enter the value of b");  
 double b = scanner.nextDouble();  
 scanner.nextLine();  
  
 double c = a;  
 a=b;  
 b=c;  
   
 System.*out*.println("The value of a is" + a);  
 System.*out*.println("the value of b is" + b );  
  
 }  
}

1. **Question: Create a Java program to check whether a given number is even or odd. Take the number as input from the user.**

import java.util.Scanner;  
  
public class practice {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
 System.*out*.println("enter the value of a");  
 double a = scanner.nextDouble();  
 scanner.nextLine();  
  
 if(a % 2 == 0){  
 System.*out*.println("the number is even");  
 }  
 else{  
 System.*out*.println("the value is odd");  
 }  
  
 }  
}

1. **Question: Write a Java program to determine if a year is a leap year. Take the year as input from the user (use the leap year rule: a year is a leap year if it is divisible by 4 but not divisible by 100, except if it is divisible by 400).**
2. **Question: Create a Java program that calculates the area of a triangle. Take the base and height as inputs from the user.**

import java.util.Scanner;  
  
public class practice {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
 System.*out*.println("enter the value of base ");  
 double base = scanner.nextDouble();  
 scanner.nextLine();  
  
 System.*out*.println("enter the value of height ");  
 double height = scanner.nextDouble();  
 scanner.nextLine();  
  
 double area = 1.0/2.0 \* base \* height;  
  
 System.*out*.println("area is " + area );  
 }  
}

1. **Question: Given the radius and height of a cylinder, write a Java program to calculate its volume. Take the radius and height as inputs from the user.**

import java.util.Scanner;  
  
public class practice {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
 System.*out*.println("enter the value of radius ");  
 double radius = scanner.nextDouble();  
 scanner.nextLine();  
  
 System.*out*.println("enter the value of height ");  
 double height = scanner.nextDouble();  
 scanner.nextLine();  
  
 double volume = 22.0/7.0 \* Math.*pow*(radius,2)\* height;  
  
 System.*out*.println("volume is " + volume );  
 }  
}