Q1.

package Q1;  
  
public class PrintNumbers {  
 public static void main(String[] args) {  
 for (int i=10; i<=49; i++){  
 System.*out*.println(i);  
 }  
 }  
}

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Q2.

package Q2;  
  
import java.util.Scanner;  
  
public class DisplayDigits {  
 public static void main(String[] args) {  
 Scanner sc = new Scanner(System.*in*);  
 System.*out*.println("Enter the digit: ");  
 int digit = sc.nextInt();  
 int count=0;  
  
 if (digit == 0) {  
 return ;  
 }  
  
  
 //Check the Digits  
 while (digit > 0) {  
 count++ ;  
 digit/=10;  
 }  
 System.*out*.println("The digits are " + count);  
  
  
 }  
}

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Q3.

package Q3;  
import java.util.Scanner;  
  
  
public class MultiplicationTbale {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
 // Ask the user to enter a number  
 System.*out*.print("Enter a number to print its multiplication table: ");  
 int number = scanner.nextInt();  
  
 // Print the multiplication table from 1 to 10  
 System.*out*.println("Multiplication Table for " + number + ":");  
  
 for (int i = 1; i <= 10; i++) {  
 int result = number \* i;  
 System.*out*.println(number + " x " + i + " = " + result);  
 }  
  
 scanner.close();  
 }  
 }

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Q4.

package Q4;  
  
import java.util.Scanner;  
  
public class AsterikPyramid {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
 System.*out*.print("Enter number of rows for the pyramid: ");  
 int rows = scanner.nextInt();  
  
 for (int i = 1; i <= rows; i++) {  
 for (int j = 1; j <= rows - i; j++) {  
 System.*out*.print(" ");  
 }  
 for (int k = 1; k <= (2 \* i - 1); k++) {  
 System.*out*.print("\*");  
 }  
 System.*out*.println();  
 }  
 scanner.close();  
 }  
}

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Q5.

package Q5;  
  
import java.util.Scanner;  
  
public class Palindrome {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
   
 System.*out*.print("Enter a word or phrase: ");  
 String input = scanner.nextLine();  
   
 String cleanedInput = input.replaceAll("[^a-zA-Z0-9]", "").toLowerCase();  
   
 String reversed = new StringBuilder(cleanedInput).reverse().toString();  
   
 if (cleanedInput.equals(reversed)) {  
 System.*out*.println("The input is a palindrome.");  
 } else {  
 System.*out*.println("The input is NOT a palindrome.");  
 }  
 scanner.close();  
 }  
}

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Q6.

package Q6;  
  
import java.util.Scanner;  
  
public class RandomNumbers {  
 public static void main(String[] args) {  
  
 Scanner sc = new Scanner(System.*in*);  
 System.*out*.println("Enter a Random number: ");  
 int n = sc.nextInt();  
  
 int a = (int) (Math.*random*() \* 100); // 0 to 99  
  
 while (true ){  
 if(n==a){  
 System.*out*.println("Congratulations! You got it!: " + a);  
 return;  
 }  
 else{  
 System.*out*.println("You Guest Wrong ---> Random Number: " + a);  
 return;  
 }  
 }  
  
 }  
}

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Q7.

package Q7;  
  
import java.util.Scanner;  
  
public class ReplaceSentences {  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
  
 System.*out*.print("Enter a sentence: ");  
 String sentence = scanner.nextLine();  
 System.*out*.print("Enter the word to be replaced: ");  
 String oldWord = scanner.nextLine();  
 System.*out*.print("Enter the replacement word: ");  
 String newWord = scanner.nextLine();  
 String replacedSentence = sentence.replaceAll("\\b" + oldWord + "\\b", newWord);  
 System.*out*.println("Updated sentence: " + replacedSentence);  
  
 scanner.close();  
 }  
}

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