|  |
| --- |
| package assignment; |
|  |  |
|  | public class Armstrong { |
|  | public static void main(String [] args) |
|  | { |
|  |  |
|  | for (int a = 100 ; a <= 1000 ; a++) |
|  | { |
|  | int n = a; |
|  | int d = 0; |
|  | int s = 0; |
|  |  |
|  | while (n > 0) |
|  | { |
|  | d = n % 10; |
|  | s = s + (d \* d \* d); |
|  | n = n / 10; |
|  | } |
|  | if (a == s) |
|  | { |
|  | System.out.println(a +" is Armstrong number"); |
|  | } |
|  | } |
|  | } |
|  | }  Qn2   |  | | --- | | package assignment; | |  | import java.util.Scanner; | |  | public class ArmstrongNumber { | |  |  | |  | public static void main(String[] args) { | |  |  | |  | int num, number, temp, total = 0; | |  | System.out.println("Enter Number"); | |  | Scanner scanner = new Scanner(System.in); | |  | num = scanner.nextInt(); | |  | scanner.close(); | |  | number = num; | |  |  | |  | for( ;number!=0;number /= 10) | |  | { | |  | temp = number % 10; | |  | total = total + temp\*temp\*temp; | |  | } | |  |  | |  | if(total == num) | |  | System.out.println(num + " is an Armstrong number"); | |  | else | |  | System.out.println(num + " is not an Armstrong number"); | |  | } | |  | } |   Qn3   |  | | --- | |  | | |  | | --- | | package assignment; | |  |  | |  | public class Array { | |  | static void bubbleSort(int[] arr) { | |  | int n = arr.length; | |  | int temp = 0; | |  | for (int i = 0; i < n; i++) { | |  | for (int j = 1; j < (n - i); j++) { | |  | if (arr[j - 1] > arr[j]) { | |  | temp = arr[j - 1]; | |  | arr[j - 1] = arr[j]; | |  | arr[j] = temp; | |  | } | |  |  | |  | } | |  | } | |  |  | |  | } | |  |  | |  | public static void main(String[] args) { | |  | int arr[] = {5, 12, 14, 6, 78, 19, 1, 23, 26, 35, 37, 7, 52, 86, 47}; | |  |  | |  | System.out.println("Array Before Bubble Sort"); | |  | for (int i = 0; i < arr.length; i++) { | |  | System.out.print(arr[i] + " "); | |  | } | |  | System.out.println(); | |  | bubbleSort(arr); | |  | System.out.println("Array After Bubble Sort"); | |  | for (int i = 0; i < arr.length; i++) { | |  | System.out.print(arr[i] + " "); | |  | } | |  | } | |  | }  QUESTION 4 | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |
| package assignment; |
|  |  |
|  | public class FindElementInArray { |
|  | public static void main(String[] args) { |
|  | int[] num = {5,12,14,6,78,19,1,23,26,35,37,7,52,86,47}; |
|  | int toFind = 19; |
|  | boolean found = false; |
|  |  |
|  | for (int n : num) { |
|  | if (n == toFind) { |
|  | found = true; |
|  | break; |
|  | } |
|  | } |
|  |  |
|  | if(found) |
|  | System.out.println(toFind + " is found."); |
|  | else |
|  | System.out.println(toFind + " is not found."); |
|  | } |
|  | } |
|  |  |

QUESTION 5

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| --- |
| package assignment; |
|  |  |
|  | import java.util.Scanner; |
|  |  |
|  | public class IncomeTaxCalculator { |
|  | public static void main(String[] args) { |
|  | Scanner s=new Scanner(System.in); |
|  | double ctc=s.nextDouble(); |
|  | if (ctc>=0&&ctc<=180000) { |
|  | System.out.println("tax payable in % is : NILL "); |
|  | } |
|  | else if(ctc>180000&&ctc<=300000) { |
|  | System.out.println(" tax payable in % is : 10 "); |
|  | } |
|  | else if(ctc>300000&&ctc<=500000) { |
|  | System.out.println(" tax payable in % is : 20 "); |
|  | } |
|  | else if(ctc>500000&&ctc<=1000000) { |
|  | System.out.println(" tax payable in % is : 30 "); |
|  | } |
|  | else{ |
|  |  |
|  | System.out.println("tax payable in % is : 40 "); |
|  | } |
|  | } |
|  | } |

|  |
| --- |
| package assignment; |
|  | import java.util.Scanner; |
|  | public class Interest{ |
|  | public static void main(String args[ ]) |
|  | { |
|  | double p, rate, t, sim,com; |
|  | System.out.println("Enter amount:"); |
|  | Scanner obj=new Scanner(System. in); |
|  | p=obj.nextDouble(); |
|  | System. out. println("Enter the No.of years:"); |
|  | t=obj.nextDouble(); |
|  | System.out. println("Enter the Rate of interest"); |
|  | rate=obj.nextDouble(); |
|  | sim=(p \* t \* rate)/100; |
|  | com=p \* Math.pow(1.0+rate/100.0,t) - p; |
|  | System.out.println("Simple Interest="+sim ); |
|  | System.out. println("Compound Interest="+com); |
|  | } |
|  | } |

QUESTION 6

|  |
| --- |
| package assignment; |
|  | import java.util.Scanner; |
|  | public class Interest{ |
|  | public static void main(String args[ ]) |
|  | { |
|  | double p, rate, t, sim,com; |
|  | System.out.println("Enter amount:"); |
|  | Scanner obj=new Scanner(System. in); |
|  | p=obj.nextDouble(); |
|  | System. out. println("Enter the No.of years:"); |
|  | t=obj.nextDouble(); |
|  | System.out. println("Enter the Rate of interest"); |
|  | rate=obj.nextDouble(); |
|  | sim=(p \* t \* rate)/100; |
|  | com=p \* Math.pow(1.0+rate/100.0,t) - p; |
|  | System.out.println("Simple Interest="+sim ); |
|  | System.out. println("Compound Interest="+com); |
|  | } |
|  | } |

QUESTION 7

|  |
| --- |
| package assignment; |
|  |  |
|  |  |
|  | import java.util.\*; |
|  | public class Password { |
|  | public static void main(String[] args) { |
|  | Scanner sc = new Scanner(System.in); |
|  | int count = 0; |
|  |  |
|  | System.out.println("Enter the Username"); |
|  | String uname = sc.nextLine(); |
|  |  |
|  | System.out.println("Enter the Password"); |
|  | String upass = sc.nextLine(); |
|  |  |
|  | System.out.println(uname + " you are Registered Successfully"); |
|  |  |
|  | System.out.println(" PLEASE ENTER BELOW YOUR LOGIN DETAILS"); |
|  |  |
|  | System.out.println("Enter the Username"); |
|  | String lname = sc.nextLine(); |
|  |  |
|  | System.out.println("Enter the Password"); |
|  | String lpass = sc.nextLine(); |
|  |  |
|  | while (count <= 2) { |
|  |  |
|  | if ((!uname.equals(lname)) || (!upass.equals(lpass))) { |
|  | System.out.println("WARNING: USERNAME OR PASSWORD MISMATCH"); |
|  |  |
|  | System.out.println("Enter the Username"); |
|  | lname= sc.nextLine(); |
|  |  |
|  | System.out.println("Enter the Password"); |
|  | lpass= sc.nextLine(); |
|  | } else { |
|  | System.out.println("YOU ARE LOGGED IN"); |
|  | break; |
|  | } |
|  | count++; |
|  |  |
|  | } |
|  | if (count > 2) { |
|  | System.out.println("PLEASE CONTACT ADMIN"); |
|  | } |
|  |  |
|  | } |
|  | } |

QUESTION 8

|  |
| --- |
| package assignment; |
|  |  |
|  | import java.util.Scanner; |
|  |  |
|  | public class Results { |
|  | public static void main(String[] args) { |
|  | Scanner s=new Scanner(System.in); |
|  | System.out.println("Enter First Subject-1 Marks"); |
|  | int subject1=s.nextInt(); |
|  | System.out.println("Enter First Subject-2 Marks"); |
|  | int subject2=s.nextInt(); |
|  | System.out.println("Enter First Subject-3 Marks"); |
|  | int subject3=s.nextInt(); |
|  | if (subject1>=60&&subject2>=60&&subject3>=60) { |
|  | System.out.println("Passed"); |
|  | } |
|  | else if (((subject1>=60&&subject2>=60)) || ((subject2>=60&&subject3>=60 )) || ((subject3>=60&&subject1>=60 ))) { |
|  | System.out.println("Promoted"); |
|  | } |
|  | else if(subject1>60|| subject2 >60|| subject3>60 || (subject1<60&&subject2<60&&subject3<60)) { |
|  | System.out.println("Failed"); |
|  | } |
|  | else |
|  | { |
|  | System.out.println("entered data is invalid"); |
|  | } |
|  | } |
|  | } |