

```
1  import java.util.Scanner;
2
3  public class homework {
4      public static void main(String[] args) {
5          Scanner input = new Scanner(System.in);
6
7          // questions 1
8          System.out.print("enter a num --> ");
9          int num = input.nextInt();
10
11         if (num%2==0)
12             System.out.println("even");
13         else
14             System.out.println("odd");
15
16
17         System.out.println("--- \n");
18
19         // questions 2
20         System.out.print("enter a num --> ");
21         num = input.nextInt();
22         System.out.print("enter a num2 --> ");
23         int num2 = input.nextInt();
24
25         if (num == num2)
26             System.out.println("even");
27         else
28             System.out.println("sum is " + (num + num2));
29             System.out.println("product is " + (num * num2));
30
31
32         System.out.println("----- \n");
33
34         // questions 3
35         int d100, temp, d1, d10;
36         System.out.print("enter a 3digit num --> ");
37         num = input.nextInt();
38         d1 = num % 10;
39         temp = num / 10;
40         d10 = temp % 10;
41         d100 = temp / 10;
42         if (d1 + d10 == d100)
43             System.out.println("yes");
44         else
45             System.out.println("no");
46
47
48         System.out.println("----- \n");
49
```

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50      // questions 4
51      System.out.print("enter a 2 digit num --> ");
52      num = input.nextInt();
53      d1 = num % 10;
54      temp = num / 10;
55      d10 = temp % 10;
56      if (d1%2==0 && d10 %2==0)
57          System.out.println("2");
58      else
59          if (d1 %2==0 && d10%2 != 0)
60              System.out.println("1");
61          else
62              if (d1 %2 !=0 && d10%2 == 0)
63                  System.out.println("1");
64              else
65                  System.out.println("0");
66
67
68      System.out.println("--- \n");
69
70      // questions 5
71      System.out.print("enter a num --> ");
72      num = input.nextInt();
73      System.out.print("enter a num2 --> ");
74      num2 = input.nextInt();
75      if (num != num2)
76          if (num > num2)
77              System.out.println(num);
78          else System.out.println(num2);
79      else
80          System.out.println("they are the same " + num + "=" + num2);
81
82      System.out.println("--- \n");
83
84      // questions 6
85      System.out.print("how many kids are going to the trip --> ");
86      num = input.nextInt();
87
88      if (num%4==0)
89          System.out.println((num/4) + "jeeps are needed");
90      else System.out.println((num/4 + 1) + "jeeps are needed");
91
92      System.out.println("--- \n");
93
94      // questions 7
95      System.out.print("enter a 2 digit num --> ");
96      num = input.nextInt();
97      d1 = num % 10;
98      temp = num / 10;

```

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99      d10 = temp % 10;
100     System.out.print("enter 1 digit num --> ");
101     num2 = input.nextInt();
102     if (d1 == num2 || d10 == num2 )
103         System.out.println("yes sir");
104     else
105         System.out.println("nope");
106
107     System.out.println("--- \n");
108
109     // questions 8
110     String name, name2;
111     System.out.print("enter runner1 name --> ");
112     name = input.next();
113     System.out.print("enter runner1 time --> ");
114     num = input.nextInt();
115     System.out.print("enter runner2 name --> ");
116     name2 = input.next();
117     System.out.print("enter runner2 time --> ");
118     num2 = input.nextInt();
119     if (num < num2)
120         System.out.println(name + " is the winner with the time of " + num);
121     else if (num2 < num)
122         System.out.println(name2 + " is the winner with the time of " +
num2);
123     else System.out.println("both finished with the same time");
124
125     System.out.println("--- \n");
126
127     // questions 9
128     System.out.print("enter a num --> ");
129     num = input.nextInt();
130     System.out.print("enter a num2 --> ");
131     num2 = input.nextInt();
132     System.out.print("enter a mathematical operation +/ --> ");
133     String operation = input.next();
134     if (operation.equals("+"))
135         System.out.println(num + num2);
136     else if (operation.equals("-"))
137         System.out.println(num - num2);
138
139
140     System.out.println("--- \n");
141
142     // questions 10
143     System.out.print("enter a 3 digit num --> ");
144     num = input.nextInt();
145     d1 = num % 10;
146     temp = num /10;

```

```
147     d10 = temp % 10;
148     d100 = temp / 10;
149     if (d1 == d100)
150         System.out.println("yes");
151     else
152         System.out.println("no");
153 }
154 }
155 /*
156 enter a num --> 12
157 even
158 ---
159
160 enter a num --> 12
161 enter a num2 --> 35
162 sum is 47
163 product is 420
164 -----
165
166 enter a 3digit num --> 321
167 yes
168 -----
169
170 enter a 2 digit num --> 12
171 1
172 ---
173
174 enter a num --> 45
175 enter a num2 --> 23
176 45
177 ---
178
179 how many kids are going to the trip --> 63
180 16jeeps are needed
181 ---
182
183 enter a 2 digit num --> 23
184 enter 1 digit num --> 3
185 yes sir
186 ---
187
188 enter runner1 name --> ziv
189 enter runner1 time --> 12
190 enter runner2 name --> nadav
191 enter runner2 time --> 17
192 ziv is the winner with the time of 12
193 ---
194
195 enter a num --> 12
```

```
196 enter a num2 --> 34
197 enter a mathematical operation +/- --> +
198 46
199 ---
200
201 enter a 3 digit num --> 436
202 no
203
204 * */
```