```
1 package number_game;
 2 import java.util.Random;
 3 import java.util.*;
 4
5 public class Number_Game
6
7
        public static void main(String args[])
8
9
            Scanner sc=new Scanner(System.in);
10
            int choice=1;
            dо
11
12
            System.out.println("Number Game!!");
13
            System.out.println("Computer has generated a number between 0 to 100");
14
15
            System.out.println("You have 5 chances to guess the right one");
16
17
            Random r=new Random();//To generate random number
18
            int genr_num=r.nextInt(0,100);
19
20
                int chances=4,rounds=1;//no of chances to be given
21
                int flag=0,score=10;
22
                    System.out.println("\nGuess a number between 0 to 100");
23
24
                    int input=sc.nextInt();//user input
25
26
                    if(input==genr_num)
27
28
                       chances=0;
29
                       flag=1;
30
                       break;
                    }
31
32
                    else
33
34
                         //if not match, calculate gap
35
                         int gap=genr_num-input;
36
                         int diff=Math.abs(gap);//modulus of diff
37
                         //assign hints
                         if(diff<5)
38
39
                             System.out.println("Hint:You are very Close");
40
                         else if(5<=diff&&diff<15)</pre>
41
                             System.out.println("You are Close");
42
                         else if(15<=diff&&diff<30)</pre>
43
                             System.out.println("You are Far");
44
                         else
45
                             System.out.println("You are very Far");
46
47
                         System.out.println("Try again..You have "+chances+" chances left!!\n");
48
                         chances--;
49
                         score=score-2;
50
                         rounds++;
51
52
                }while(chances>=0);
53
54
                if(flag==0)
55
                {
56
                    score=0;
                    System.out.println("\nGENERATED NUMBER WAS: "+genr_num);
57
58
                    System.out.println("YOUR SCORE IS: "+score);
59
                    System.out.println("No more Chances Left.Better luck next time");
60
                }
61
                else if(flag==1)
62
                {
63
                    System.out.println("Congratulations!!!\nYou have guessed it right\n Answer: "+genr_num);
64
                    System.out.println("Rounds taken to Guess = "+(rounds));
65
                    System.out.println("YOUR SCORE = "+score);
                }
66
```

```
System.out.println("\nWant to play again?\nIf yes press 1 else press 0");

choice=sc.nextInt();//new game or no user input

ywhile(choice==1);

}
```