

```
1: program GuessNumber;
2:
3: uses SysUtils, CRT;
4:
5: Const MAX_NUMBER = 100;
6: Const MAX_GUESSES = 7;
7:
8: Function ReadString(prompt : String):String;
9: begin
10:     Write(prompt);
11:     ReadLn(result);
12: end;
13:
14: Function ReadInt(prompt : String):Integer;
15: var
16:     temp : String;
17:     num : Integer;
18: begin
19:     temp := ReadString(prompt);
20:     while not TryStrToInt(temp,num) do
21:     begin
22:         WriteLn('Please enter a number between 1 and 100 :');
23:         ReadLn(temp);
24:     end;
25:     result := num;
26: end;
27:
28: function generateNum():Integer;
29: begin
30:     RANDOMIZE();
31:     result := random(MAX_NUMBER)+1;
32: end;
33:
34: procedure Main();
35: var
36:     number,guess, tries: Integer;
37:     response : String;
38: begin
39:     guess := 0;
40:     tries := 1;
41:     // call repeat here to start the loop
42:     number := generateNum();
43:
44:     repeat
45:
46:     guess := ReadInt('Please enter a number :');
47:
48:     if guess = number then
49:     begin
50:         WriteLn('Congratulations!!');
51:         break;
52:     end;
53:     WriteLn('Try Number : ',tries);
54:     tries := tries + 1;
55:     if tries = 8 then
56:     begin
57:         WriteLn('Too Many! play again');
58:         ReadLn(response);
59:         if (response = 'yes') or (response = 'Yes') then
60:         begin
61:             ClrScr();
62:             tries := 1;
63:         end
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64:         else
65:         begin
66:             WriteLn('Ok bye');
67:             break;
68:         end;
69:     end;
70:
71:     until tries = 8;
72:
73:     end;
74:
75: begin
76:     ClrScr();
77:     Main();
78: end.
```