```cpp
 1  #include<iostream>
 2  #include<ctime>
 3  #include<cstdlib>
 4  #include<ios>
 5  #include<limits>
 6
 7  using namespace std;
 8
 9  int main()
10  {
11  int num;
12  int guess;
13  int guessCount = 1;
14  bool isGuessed;
15  char PlayerName[100];
16
17  cout << "Enter your Name: " << endl;
18  cin.getline(PlayerName,100);
19
20  cout << "\nYour objective is to guess the
    integer between 0 and 100 within 11 guesses."
     << endl;
21
22  srand (time(0));
23  num = rand() % 100;
24
25  isGuessed = false;
26  while (!isGuessed)
27   {
28  cout << "\nGuess the number : "<< endl;
29  cin >> guess;
30
31    if (cin.fail())
32     {
33       cin.clear();
34       cin.ignore(numeric_limits<streamsize>::max(),
    '\n');
35       cout << "Invalid input. Please enter a valid
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```cpp
35    number." << std::endl;
36       continue;
37     }
38
39  cout << "\nNumber of guesses: "<< guessCount
    << endl;
40  cout << "The number you guessed: "<< guess
     << endl;
41
42    if (guess == num)
43      {
44        cout << "You guessed the correct number
   ." << endl;
45        isGuessed = true;
46      }
47      else if (guess < num)
48        cout << "Your guess is lower than the
   number.\nGuess again!" << endl;
49      else
50        cout << "Your guess is higher than the
   number.\nGuess again!" << endl;
51
52     guessCount++;
53
54    if (guessCount > 11)
55      {
56        cout <<"You have reached the maximum
   number of guesses."
57             <<"You lost the game :( " << endl;
58      }
59  }
60
61   cout << "\n \n"<<PlayerName << " took total "
62       << guessCount - 1 << " no. of guesses :) "
    << endl;
63
64  return 0;
65
```

```
66  }
67
68
69  // Muhammad Sazzad Abrar Saad - 25/05/2023
```