/\*Welcome to Number Cricket.

\*/

Here is short description to help u understand the game

First toss will happen and user will be required to choose from 1 and 2 (1 is for Heads 2 is for Tails)

If player wins toss player will bat first else computer will bat first.

Player/Computer will bat until opponent gets him out. For example if player is batting and both computer and player choose the same move then player is out and similarly the other way round. Now target will be set and the opponent has to chase target without getting out . If target is chased chaser wins and if not then the player who batted first wins.

```
//Program Code
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
int playerScore = 0, computerScore = 0, totalScore = 0;
int playerMove, computerMove;
int targetScore;
int isOut = 0;
int toss(void);
void firstbatting(int);
void secondbatting(int);
int main() {
    int tossval = toss();
    if (tossval == 1)
         firstbatting(1); //parameter 1 means player batting frst
         printf("The target score for computer to chase is: %d\n", targetScore);
         totalScore = 0;
         playerScore = 0:
         computerScore = 0;
         printf("Now it's Computer's turn to bat...\n");
         secondbatting(2); //parameter 2 means computer chasing
    }
    else
         firstbatting(2); //parameter 2 means computer batting frst
         printf("\nThe target score for you to chase is: %d\n", targetScore);
         totalScore = 0;
         playerScore = 0;
         computerScore = 0;
         printf("Now it's your turn to bat...\n\n");
         secondbatting(1); //parameter 1 means player chasing
    return 0;
}
int toss(void)
    int tossResult,playertoss;
```

```
printf("\n**************************Welcome
                                                                      to
                                                                                      Number
Cricket!!!************************\n\n"):
    printf("Let's start with the toss...\n");
    while(1)
         printf("Choose 1 for Heads\n or \n2 for Tails.\n");
         scanf("%d",&playertoss);
         if (playertoss < 1 || playertoss > 2)
             printf("Invalid choice !!! Please choose 1 OR 2\n");
         }
         else
           break:
    tossResult = rand() \% 2 + 1;
    printf("Toss Result: %d\n",tossResult);
    if (tossResult == playertoss)
          printf("Player wins the toss and will bat first!\n");
          return 1:
     }
    else
         printf("Computer wins the toss and will bat first!\n");
         return 2;
}
void firstbatting(int first)
  // Computer's batting phase
         while (1) {
             printf("Enter your move (1 to 5): ");
             scanf("%d", &playerMove);
             computerMove = rand() % 5 + 1; // Computer chooses a number from 1 to 5
             if (first == 2)
                  printf("Computer chooses: %d\n", computerMove);
             // Check if the player entered a valid move
             if (playerMove < 1 || playerMove > 5)
             {
                  printf("Invalid move! Please choose a number between 1 and 5.\n");
                  if (first == 2)
                  {
                      totalScore += computerMove;
                      printf("\nComputer's total score: %d\n", totalScore);
                  continue;
             }
             // If player and computer choose the same number, computer is out
             if (playerMove == computerMove)
             {
```

```
if (first == 1)
                      printf("You chose %d and the computer chose %d. \nYou are OUT!\n",
playerMove, computerMove);
                 else
                      printf("You chose %d and the computer chose %d. \nComputer is
OUT!\n", playerMove, computerMove);
                  targetScore = totalScore; //target score set
                 break;
             }
             else
                 if (first == 1)
                 {
                      totalScore += playerMove; // Add player's score to the total
                      //playerMove += playerMove; // Update player's total score
                      printf("Computer chooses: %d \n", computerMove);
                      printf("Your total score: %d \n", totalScore);
                 }
                 else
                 {
                      totalScore += computerMove; // Add computer's score to the total
                          computerScore += computerMove;
                                                               // Update computer's total
                 //
score
                      printf("Computer's total score: %d\n", totalScore);
                 }
            }
        }
}
void secondbatting(int first)
    while (1)
    {
             printf("Enter your move (1 to 5): ");
             scanf("%d", &playerMove);
             computerMove = rand() % 5 + 1; // Computer chooses a number from 1 to 5
             if (first == 2)
                 printf("Computer chooses: %d\n", computerMove);
             // Check if the player entered a valid move
             if (playerMove < 1 || playerMove > 5) {
                 printf("Invalid move! Please choose a number between 1 and 5.\n");
                 if (first == 2)
                      totalScore += computerMove;
                      printf("\nComputer's total score: %d\n", totalScore);
                 }
                 printf("Invalid move! Please choose a number between 1 and 5.\n");
                 continue;
             }
             // If player chooses the same number as the computer's last number, player is
out
```

```
if (playerMove == computerMove)
                 if (first == 1)
                      printf("You chose %d and the computer chose %d. You are OUT!\n",
playerMove, computerMove);
                 else
                      printf("You chose %d and the computer chose %d. Computer is OUT!\n",
playerMove, computerMove);
                 //break;
             } else
                 if (first == 1)
                 {
                      playerScore += playerMove; // Add player's score to the total
                      printf("Computer chooses: %d \n", computerMove);
                      printf("Your score: %d | Target score: %d\n", playerScore, targetScore);
                 }
                 else
                 {
                      computerScore += computerMove;
                      printf("Computer score: %d | Target score: %d\n", computerScore,
targetScore);
                 }
             if (first == 1)
                 if (playerScore >= targetScore)
                      printf("Congratulations! You chased the target and won!\n");
                      break;
                 else if ((playerMove == computerMove) && (playerScore < targetScore))
                      printf("Computer wins! Better luck next time.\n");
                      break;
                 }
             }
             else
                  if (computerScore >= targetScore)
                      printf("Computer wins! Target achieved.\n");
                      break;
                 else if ((playerMove == computerMove) && (computerScore < targetScore))
                      printf("Congratulations! You won Computer Lost!\n");
                      break;
                 }
             }
}
```

Let's start with the toss... Choose 1 for Heads or 2 for Tails. 2 Toss Result: 2

Player wins the toss and will bat first!

Enter your move (1 to 5): 3 Computer chooses: 2 Your total score: 3

Enter your move (1 to 5): 4 Computer chooses: 3 Your total score: 7

Enter your move (1 to 5): 4 Computer chooses: 1 Your total score: 11

Enter your move (1 to 5): 5 Computer chooses: 4 Your total score: 16 Enter your move (1 to 5): 4 Computer chooses: 1 Your total score: 20

Your total score: 20 Enter your move (1 to 5): 1 Computer chooses: 2 Your total score: 21

Enter your move (1 to 5): 3

You chose 3 and the computer chose 3.

You are OUT!

The target score for computer to chase is: 21

Now it's Computer's turn to bat...

Enter your move (1 to 5): 2 Computer chooses: 5

Computer score: 5 | Target score: 21

Enter your move (1 to 5): 1 Computer chooses: 2

Computer score: 7 | Target score: 21

Enter your move (1 to 5): 3 Computer chooses: 3

You chose 3 and the computer chose 3. Computer is OUT!

Congratulations! You won Computer Lost!