```
1 #include<stdio.h>
   #include<stdlib.h>
   #include<time.h>
 4 #include<unistd.h>
   #include<conio.h>
 6
 7
   struct myDataType{
       int i;
 8
9
        char ch;
10 }inputValue();
11
12 void run();
13 int check(char sym[9],char ch,int count);
14 struct myDataType inputValue(char sym[9],int count);
15 void Display(char sym[9]);
16
17 int main(){
18
       char reStart;
19
       again:
20
21
      printf("\nIf You Want To Play Again Press 1: \nElse Any:");
22
       scanf("%s",&reStart);
       if(reStart == '1')
23
24
            {
                system("cls");
25
26
                goto again;
27
28
        else
29
           exit(0);
30 }
31
32 void typewriter(const char* letter, int rate)
33
34
      for (int i = 0; letter[i] != '\0'; i++)
35
       printf("%c", letter[i]);
36
37
       fflush(stdout);
        usleep(1000 * rate);
38
39
40 }
41
42 void run(){
43
        int count = 0;
44
        struct myDataType info;
45
        char symbol[9] = {'1','2','3','4','5','6','7','8','9'};
46
        Display(symbol);
47
        again:
48
        info = inputValue(symbol,count);
49
        symbol[info.i] = info.ch;
50
        system("cls");
51
        Display(symbol);
52
        if(check(symbol,info.ch,count)==1);
53
        else{
54
            count++;
55
            goto again;
56
57
58 int check(char sym[9],char ch,int count){
59
        int i;
        for(i = 0; i \le 6; i + = 3) / / it's for row
60
61
            if(sym[i] == ch && sym[i+1] == ch & sym[i+2] == ch) {
62
                printf("\nThe Winner is : %c",ch);return 1;
63
64
        for(i = 0; i < 3; i++)//it's for column
65
            if(sym[i]==ch && sym[i+3]==ch&sym[i+6]==ch){}
66
                printf("\nThe Winner is : %c",ch);return 1;
```

```
67
          }
 68
       if(sym[0]==ch && sym[4]==ch&&sym[8]==ch){
            printf("\nThe Winner is : %c",ch);return 1;
 69
 70
71
       else if(sym[2]==ch && sym[4]==ch && sym[6]==ch){
              printf("\nThe Winner is : %c",ch);return 1;
72
73
          }
74
        else if(count==8){
           printf("\n-----The game was a draw------");
75
76
           return 1;
77
        }else return 0;
78 }
79 struct myDataType inputValue(char sym[9],int count){
80
      char value;
81
       struct myDataType info;
82
       inputAgain:
83
      if(count%2 == 0){
84
          typewriter("\n\nEnter Your Choice X:\n",20);
85
86
          typewriter("\n\nEnter Your Choice 0:\n",20);
87
88
       scanf("%s",&value);
       for(int i=0;i<9;i++){</pre>
89
90
          if(value == sym[i]){
91
92
              info.i = i;
93
               if(count%2 == 0)
94
                  info.ch = 'X';
95
96
                  info.ch = '0';
97
              break;
98
           }else{
              info.i = -1;
99
100
               info.ch = ' ';
101
102
       if(info.i == -1){
103
          printf("\nInput invalid");
104
105
           goto inputAgain;
106
107
       return info;
108
109
110 void Display(char sym[9])
111
112
       typewriter("Hello everyone.\nWelcome to the game.\nThis game was developed by Chaitrika, Harshini and
Ashwini\n",40);
113
       printf("
114
       typewriter("\t\t
                         ---TIC TAC TOE---\n",10);
      printf("
115
      printf("\n\nPlayer 1's Symbol: X\n");
116
      printf("\nPlayer 2's Symbol: 0\n");
117
      printf("\n\t\t\----");
118
      119
120
      printf("\n\t\t\t| %c | %c | %c |",sym[0],sym[1],sym[2]);
      printf("\n\t\t|-----|----|");
121
      printf("\n\t\t\t| %c | %c | %c |",sym[3],sym[4],sym[5]);
122
      printf("\n\t\t|-----|----|");
123
      printf("\n\t\t\t| %c | %c | %c |",sym[6],sym[7],sym[8]);
124
      printf("\n\t\t\t|
125
                                         ");
126
       printf("\n\t\t\----");
127 }
```