-Source Code

```
#include<stdio.h>
#include<conio.h>
#include <time.h>
#include<Windows.h>
#include <thread>
//Global Variables
const int max_bullet = 5;
bool status[max_bullet];
int bx[max_bullet], by[max_bullet];
//Function Declaration
void erase_ship(int x, int y);
void erase_bullet(int x, int y);
void draw_ship(int x, int y);
void draw_bullet(int x, int y);
void gotoxy(int x, int y);
void setcursor(bool visible);
void setcolor(int fg, int bg);
//Main Loop
int main()
      clock_t start_t, this_t;
      start_t = clock();
      char ch = ' ';
      int x = 38, y = 20;
      setcursor(0);
      draw_ship(x, y);
      char dir{};
      do {
             this_t = clock();
             if (_kbhit()) {
                    ch = _getch();
                    if (ch == 'a')
                          dir = 'l';
                    }
                    if (ch == 'd')
                          dir = 'r';
                    if (ch == 's')
                          dir = 'i';
                    if (ch == ' ') //Key Shoot
                          for (int i = 0; i < max_bullet; i++)</pre>
                                 if (status[i] == 0)
```

```
status[i] = 1;
                                          bx[i] = x + 2;
                                          by[i] = y - 1;
                                          break;
                                   }
                            }
                     fflush(stdin);
              }
                     if (dir == 'l' && x > 0)
                                   erase_ship(x, y);
                                   draw_ship(--x, y);
                     if (dir == 'r' && x < 80)</pre>
                                   erase_ship(x, y);
                                   draw_ship(++x, y);
                     if (dir == 'i')
                            erase_ship(x, y);
                            draw_ship(x, y);
                     for (int i = 0; i < max_bullet; i++) //Shoot</pre>
                            if (status[i] == 1)
                            {
                                   erase_bullet(bx[i], by[i]);
                                   if (by[i] == 0)
                                          status[i] = 0;
                                   }
                                   else
                                   {
                                          draw_bullet(bx[i], --by[i]);
                                   }
                           }
              Sleep(100);
       } while (ch != 'x');
       return 0;
}
//Function Setup
void draw_ship(int x, int y)
{
       setcolor(2, 4);
       gotoxy(x, y);
printf(" -olo- ");
}
void draw_bullet(int x, int y)
       setcolor(4, 0);
       gotoxy(x, y);
```

```
printf(" | ");
}
void gotoxy(int x, int y)
       COORD c = \{ x, y \};
       SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE), c);
}
void erase_ship(int x, int y)
       setcolor(0, 0);
       gotoxy(x, y);
printf("
                      ");
}
void erase_bullet(int x, int y)
       setcolor(0, 0);
       gotoxy(x, y);
printf(" ");
}
void setcursor(bool visible)
       HANDLE console = GetStdHandle(STD_OUTPUT_HANDLE);
       CONSOLE_CURSOR_INFO lpCursor;
       lpCursor.bVisible = visible;
       lpCursor.dwSize = 20;
       SetConsoleCursorInfo(console, &lpCursor);
}
void setcolor(int fg, int bg)
       HANDLE hConsole = GetStdHandle(STD_OUTPUT_HANDLE);
       SetConsoleTextAttribute(hConsole, bg * 16 + fg);
}
```

