Lab 6

Assignment Program

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#define _CRT_SECURE_NO_WARNINGS 1
#include<stdio.h>
#include<conio.h>
#include<windows.h>
void setcolor(int fg, int bg)
{
   HANDLE hConsole = GetStdHandle(STD_OUTPUT_HANDLE);
    SetConsoleTextAttribute(hConsole, bg * 16 + fg);
void setcursor(bool visible)
   HANDLE console = GetStdHandle(STD OUTPUT HANDLE);
   CONSOLE CURSOR INFO lpCursor;
    lpCursor.bVisible = visible;
   lpCursor.dwSize = 20;
   SetConsoleCursorInfo(console, &lpCursor);
void gotoxy(int x, int y)
   COORD c = \{ x, y \};
   SetConsoleCursorPosition(
        GetStdHandle(STD_OUTPUT_HANDLE), c);
void erase_ship(int x, int y) {
   gotoxy(x, y);
   printf("
                   ");
void erase_bg(int x, int y) {
   gotoxy(x, y);
   setcolor(0, 0);
   printf("
void draw_ship(int x, int y)
    setcolor(9, 1);
    gotoxy(x, y);
    printf(" <-0-> ");
```

```
void draw_bullet(int x, int y) {
    setcolor(4, 0);
    gotoxy(x, y);
    printf("*");
void erase_bullet(int x, int y) {
    gotoxy(x, y);
    setcolor(0, 0);
    printf(" ");
struct Ammo {
    int active = 0;
    int x = 0, y = 0;
};
int main()
    Ammo ammo[5];
    int x = 38, y = 29;
    int direction = 0;
    setcursor(0);
    draw_ship(x, y);
    do {
        if (_kbhit())
            ch = _getch();
            if (ch == 'a' \&\& x > 0)
                direction = 1;
            if (ch == 'd' \&\& x <= 80)
                direction = 2;
            if (ch == 's')
                direction = 3;
            if (ch == ' ') {
                for (int i = 0; i < 5; i++) {
                    if (ammo[i].active == 0) {
                        ammo[i].active = 1;
                        ammo[i].x = x + 3;
```

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ammo[i].y = y;
                    break;
        fflush(stdin);
    for (int i = 0; i < 5; i++) {
        if (ammo[i].active == 1) {
            erase_bullet(ammo[i].x, ammo[i].y);
            if (ammo[i].y > 0) {
                draw_bullet(ammo[i].x, --ammo[i].y);
            else {
                ammo[i].active = 0;
    }
   if (direction == 1 \&\& x > 0)
        erase_ship(x, y);
        erase_bg(x, y);
        draw_ship(--x, y);
    if (direction == 2 \&\& x <= 80)
        erase_ship(x, y);
        erase_bg(x, y);
        draw_ship(++x, y);
    if (direction == 3)
        erase_ship(x, y);
        erase_bg(x, y);
        draw_ship(x, y);
    Sleep(100);
} while (ch != 'x');
return 0;
```