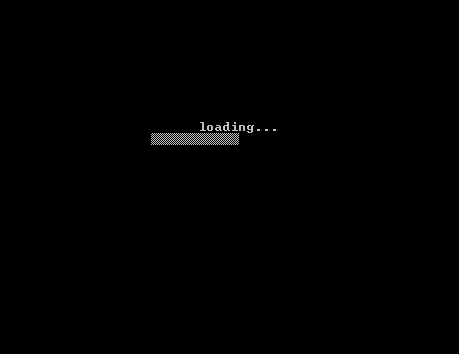
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| --- |
| FOOD HUNT |
| Third Semester mini project….. |
| CONFIDENTIAL ! KEEP SAFE. |
|  |



**FOOD HUNT CODES**

#include <stdio.h>

#include <time.h>

#include <stdlib.h>

#include <conio.h>

#include <time.h>

#include <ctype.h>

#include <time.h>

#include <windows.h>

#include <process.h>

#define UP 72

#define DOWN 80

#define LEFT 75

#define RIGHT 77

int length;

int bend\_no;

int len;

char key;

void record();

void load();

int life;

void Delay(long double);

void Move();

void Food();

int Score();

void Print();

void gotoxy(int x, int y);

void GotoXY(int x,int y);

void Bend();

void Border();

void Down();

void Left();

void Up();

void Right();

void ExitGame();

int Scoreonly();

struct coordinate{

int x;

int y;

int direction;

};

typedef struct coordinate coordinate;

coordinate head, bend[500],food,body[30];

int main()

{

char key;

Print();

system("cls");

load();

length=5;

head.x=25;

head.y=20;

head.direction=RIGHT;

Border();

Food(); //to generate food coordinates initially

life=3; //number of extra lives

bend[0]=head;

Move(); //initialing initial bend coordinate

return 0;

}

void Move()

{

int a,i;

do{

Food();

fflush(stdin);

len=0;

for(i=0;i<30;i++)

{

body[i].x=0;

body[i].y=0;

if(i==length)

break;

}

Delay(length);

Border();

if(head.direction==RIGHT)

Right();

else if(head.direction==LEFT)

Left();

else if(head.direction==DOWN)

Down();

else if(head.direction==UP)

Up();

ExitGame();

}while(!kbhit());

a=getch();

if(a==27)

{

system("cls");

exit(0);

}

key=getch();

if((key==RIGHT&&head.direction!=LEFT&&head.direction!=RIGHT)||(key==LEFT&&head.direction!=RIGHT&&head.direction!=LEFT)||(key==UP&&head.direction!=DOWN&&head.direction!=UP)||(key==DOWN&&head.direction!=UP&&head.direction!=DOWN))

{

bend\_no++;

bend[bend\_no]=head;

head.direction=key;

if(key==UP)

head.y--;

if(key==DOWN)

head.y++;

if(key==RIGHT)

head.x++;

if(key==LEFT)

head.x--;

Move();

}

else if(key==27)

{

system("cls");

exit(0);

}

else

{

printf("\a");

Move();

}

}

void gotoxy(int x, int y)

{

COORD coord;

coord.X = x;

coord.Y = y;

SetConsoleCursorPosition(GetStdHandle(STD\_OUTPUT\_HANDLE), coord);

}

void GotoXY(int x, int y)

{

HANDLE a;

COORD b;

fflush(stdout);

b.X = x;

b.Y = y;

a = GetStdHandle(STD\_OUTPUT\_HANDLE);

SetConsoleCursorPosition(a,b);

}

void load(){

int row,col,r,c,q;

gotoxy(36,14);

printf("loading...");

gotoxy(30,15);

for(r=1;r<=20;r++){

for(q=0;q<=100000000;q++);//to display the character slowly

printf("%c",177);}

getch();

}

void Down()

{

int i;

for(i=0;i<=(head.y-bend[bend\_no].y)&&len<length;i++)

{

GotoXY(head.x,head.y-i);

{

if(len==0)

printf("v");

else

printf("\*");

}

body[len].x=head.x;

body[len].y=head.y-i;

len++;

}

Bend();

if(!kbhit())

head.y++;

}

void Delay(long double k)

{

Score();

long double i;

for(i=0;i<=(10000000);i++);

}

void ExitGame()

{

int i,check=0;

for(i=4;i<length;i++) //starts with 4 because it needs minimum 4 element to touch its own body

{

if(body[0].x==body[i].x&&body[0].y==body[i].y)

{

check++; //check's value increases as the coordinates of head is equal to any other body coordinate

}

if(i==length||check!=0)

break;

}

if(head.x<=10||head.x>=70||head.y<=10||head.y>=30||check!=0)

{

life--;

if(life>=0)

{

head.x=25;

head.y=20;

bend\_no=0;

head.direction=RIGHT;

Move();

}

else

{

system("cls");

printf("All lives completed\nBetter Luck Next Time!!!\nPress any key to quit the game\n");

record();

exit(0);

}

}

}

void Food()

{

if(head.x==food.x&&head.y==food.y)

{

length++;

time\_t a;

a=time(0);

srand(a);

food.x=rand()%70;

if(food.x<=10)

food.x+=11;

food.y=rand()%30;

if(food.y<=10)

food.y+=11;

}

else if(food.x==0)/\*to create food for the first time coz global variable are initialized with 0\*/

{

food.x=rand()%70;

if(food.x<=10)

food.x+=11;

food.y=rand()%30;

if(food.y<=10)

food.y+=11;

}

}

void Left()

{

int i;

for(i=0;i<=(bend[bend\_no].x-head.x)&&len<length;i++)

{

GotoXY((head.x+i),head.y);

{

if(len==0)

printf("<");

else

printf("\*");

}

body[len].x=head.x+i;

body[len].y=head.y;

len++;

}

Bend();

if(!kbhit())

head.x--;

}

void Right()

{

int i;

for(i=0;i<=(head.x-bend[bend\_no].x)&&len<length;i++)

{

//GotoXY((head.x-i),head.y);

body[len].x=head.x-i;

body[len].y=head.y;

GotoXY(body[len].x,body[len].y);

{

if(len==0)

printf(">");

else

printf("\*");

}

/\*body[len].x=head.x-i;

body[len].y=head.y;\*/

len++;

}

Bend();

if(!kbhit())

head.x++;

}

void Bend()

{

int i,j,diff;

for(i=bend\_no;i>=0&&len<length;i--)

{

if(bend[i].x==bend[i-1].x)

{

diff=bend[i].y-bend[i-1].y;

if(diff<0)

for(j=1;j<=(-diff);j++)

{

body[len].x=bend[i].x;

body[len].y=bend[i].y+j;

GotoXY(body[len].x,body[len].y);

printf("\*");

len++;

if(len==length)

break;

}

else if(diff>0)

for(j=1;j<=diff;j++)

{

/\*GotoXY(bend[i].x,(bend[i].y-j));

printf("\*");\*/

body[len].x=bend[i].x;

body[len].y=bend[i].y-j;

GotoXY(body[len].x,body[len].y);

printf("\*");

len++;

if(len==length)

break;

}

}

else if(bend[i].y==bend[i-1].y)

{

diff=bend[i].x-bend[i-1].x;

if(diff<0)

for(j=1;j<=(-diff)&&len<length;j++)

{

/\*GotoXY((bend[i].x+j),bend[i].y);

printf("\*");\*/

body[len].x=bend[i].x+j;

body[len].y=bend[i].y;

GotoXY(body[len].x,body[len].y);

printf("\*");

len++;

if(len==length)

break;

}

else if(diff>0)

for(j=1;j<=diff&&len<length;j++)

{

/\*GotoXY((bend[i].x-j),bend[i].y);

printf("\*");\*/

body[len].x=bend[i].x-j;

body[len].y=bend[i].y;

GotoXY(body[len].x,body[len].y);

printf("\*");

len++;

if(len==length)

break;

}

}

}

}

void Border()

{

system("cls");

int i;

GotoXY(food.x,food.y); /\*displaying food\*/

printf("F");

for(i=10;i<71;i++)

{

GotoXY(i,10);

printf("!");

GotoXY(i,30);

printf("!");

}

for(i=10;i<31;i++)

{

GotoXY(10,i);

printf("!");

GotoXY(70,i);

printf("!");

}

}

void Print()

{

//GotoXY(10,12);

printf("\tWelcome to the mini Snake game.(press any key to continue)\n");

getch();

system("cls");

printf("\tGame instructions:\n");

printf("\n-> Use arrow keys to move the snake.\n\n-> You will be provided foods at the several coordinates of the screen which you have to eat. Everytime you eat a food the length of the snake will be increased by 1 element and thus the score.\n\n-> Here you are provided with three lives. Your life will decrease as you hit the wall or snake's body.\n\n-> YOu can pause the game in its middle by pressing any key. To continue the paused game press any other key once again\n\n-> If you want to exit press esc. \n");

printf("\n\nPress any key to play game...");

if(getch()==27)

exit(0);

}

void record(){

char plname[20],nplname[20],cha,c;

int i,j,px;

FILE \*info;

info=fopen("record.txt","a+");

getch();

system("cls");

printf("Enter your name\n");

scanf("%[^\n]",plname);

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

for(j=0;plname[j]!='\0';j++){ //to convert the first letter after space to capital

nplname[0]=toupper(plname[0]);

if(plname[j-1]==' '){

nplname[j]=toupper(plname[j]);

nplname[j-1]=plname[j-1];}

else nplname[j]=plname[j];

}

nplname[j]='\0';

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

//sdfprintf(info,"\t\t\tPlayers List\n");

fprintf(info,"Player Name :%s\n",nplname);

//for date and time

time\_t mytime;

mytime = time(NULL);

fprintf(info,"Played Date:%s",ctime(&mytime));

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

fprintf(info,"Score:%d\n",px=Scoreonly());//call score to display score

//fprintf(info,"\nLevel:%d\n",10);//call level to display level

for(i=0;i<=50;i++)

fprintf(info,"%c",'\_');

fprintf(info,"\n");

fclose(info);

printf("wanna see past records press 'y'\n");

cha=getch();

system("cls");

if(cha=='y'){

info=fopen("record.txt","r");

do{

putchar(c=getc(info));

}while(c!=EOF);}

fclose(info);

}

int Score()

{

int score;

GotoXY(20,8);

score=length-5;

printf("SCORE : %d",(length-5));

score=length-5;

GotoXY(50,8);

printf("Life : %d",life);

return score;

}

int Scoreonly()

{

int score=Score();

system("cls");

return score;

}

void Up()

{

int i;

for(i=0;i<=(bend[bend\_no].y-head.y)&&len<length;i++)

{

GotoXY(head.x,head.y+i);

{

if(len==0)

printf("^");

else

printf("\*");

}

body[len].x=head.x;

body[len].y=head.y+i;

len++;

}

Bend();

if(!kbhit())

head.y--;

}