SPACE BLACKJACK

Name:
Kalonnie Sanchez

Date: 12/13/2017

Purpose:Project 2
Assignment

```
void

menu(),

welcome(),

srtGame(),

plyGame(short [],
short, float &,
float);
```

```
short

dlrHand(short [],
short),

dlrDeck(short *);
```

```
int

plrHand(short [],
short);
```

```
float

compute(short[],
short, float &,
float &),

srtBet(float &,
float &),

loan(float &);
```

System Libraries
```
#include <iostream>
#include <ctime>
#include <cstdlib>
#include <fstream>
#include <iomanip>
#include <string>
#include <cmath>
#include <vector>
```

(**MAIN**)

int
choice;

do{
menu();

srtGame();   while(choice> 0
&& choice < 2);   (**RETURN**)

---

void menu(){

cout <<menu;

void srtGame()

srand(static_cast<unsigned
int>(time(0)));

const short
CARD(500);

short
dcard(0),
dealer[CARD]={};

float
minus(0),
debt(0);

bool
error(0);

plyGame(dealer, dcard,
minus, debt);

---

floatcompute(short
dlrCard[],short vcard,float
&money, float &bet)

const int
SIZE(20);

char
fileOut[SIZE]="Gamelog.dat";

string
fileIn="Gamelog.dat";

ofstream out;
ifstream in;

out.open(fileOut);
in.open(fileIn.c_str());

int
userTot(0),
compTot(0);

compTot = dlrHand(dlrCard,
vcard);
userTot =
plrHand(dlrCard,vcard);

if(compTot > 21)

cout << winner

return money += bet;

elseif (userTot >
21)

cout << loser

returnmoney -= bet;

---

floatsrtBet (float
&minus, float &x

cout << bet

cout >> bet

return bet

---

intplrHand(short
dlrCard[],short
vcard)

vector<int> plrCard,
plrSum;

for(int
x=0,y=0,z=0;z<=1,x
<=1,y<=1;z++,y++,x++)
{

x=dlrDeck(dlrCard);

y=dlrDeck(dlrCard);

z=x+y;plrCard[x];

plrCard[y];plrSum[z];

do{

(**A**)

(**A**)

cout << cards

cin >> input;

If(input == 'N'||
input=='n'){

returnz;

break;}

while(z>=21);

(**A**)

---

if(compTot <= 21 &&
compTot > userTot &&
compTot !=userTot){

cout << loser

returnmoney -= bet;

(**A**)

if(input == 'N'||
input=='n'){

break;}

for (int
w=0;w<1;w++)

w=dlrDeck(dlrCard);

plrCard[w];

z=z+w;

(**A**)

---

float loan (float
&a){

cout << holo

cout >> loan

while(a>= 11 || a <= 0)

cout >> loan   if(a <= 10){

cout >> loan   a =pow(a,2.0f);

cout << loan

return loan

---

else if (userTot <= 21 &&
userTot> compTot &&
userTot != compTot){

cout << winner

returnmoney += bet;

(**A**)

cout << cards

cout << [Y] or [N]

cout >> input

if(input == 'N'||
input=='n'){

break;}

(**A**)

---

short
dlrDeck(short *a)

for(short
x=0;x<=52;x++)

a[x] = rand() % 11 + 1;

return a[x];

---

if (userTot ==
compTot){   out.close();
in.close();

cout << tie

(**A**)

for (int r=0;r<1;r++)

r=dlrDeck(dlrCard);

plrCard[r];

z=z+r;

cout << cards

returnz;

---

void welcome(){

cout << spaceship

cin.get();

void plyGame(short
dlrCard[],short vcard,float
&money, float bet){

char input;

welcome();

cout << shuffling

loan(money);

do{

compute(dlrCard,vcard,
money, bet);

cout << play

cin>> input;

while(input == 'Y'|| if(input== 'N'||
input=='y');   input=='n'

exit(0);

---

short dlrHand(short
dlrCard[],short
vcard){

const short
CARD(500);

for (short x=0; x
<= CARD;x++){

dlrCard[x]=
dlrDeck(dlrCard);

int
dlrSum
=dlrCard[0]+dlrCard[1],

dlrSum2=
dlrSum+dlrCard[2],

dlrSum3=
dlrSum2+dlrCard[3],

dlrSum4=
dlrSum3+dlrCard[4],

dlrSum5=
dlrSum4+dlrCard[5];

cout << dlrcard

if (dlrSum >= 15)   if(dlrSum2 >= 15)   if(dlrSum3 >= 15)   if(dlrSum4 >= 15)   if(dlrSum5 >= 15)

return dlrSum;   return dlrSum2;   return dlrSum3;   return dlrSum4;   return dlrSum5;