

# FOOP HW2 Report

## B01902135高滿馨

### ● Play method

Step1. Input Your name.

\*Player can't use "royalflush", "straightflush", "four", "full", "three", "straight", "two", "jack" as their name because it will make them go into test mode.

```
java -classpath src P00Casino
P00Casino Jacks or better, written by b01902135 Man-Hsin Kao
Please enter your name: 
```

Step2. Input bet.

```
java -classpath src P00Casino
P00Casino Jacks or better, written by b01902135 Man-Hsin Kao
Please enter your name: Cindy
Welcome, Cindy.
You have 1000 P-dollars now.
Please enter your P-dollar bet for round 1 (1-5 or 0 for quitting the game): 
```

Step3. Input which card you want to keep. If you don't want to keep anyone, just type "none".

```
P00Casino Jacks or better, written by b01902135 Man-Hsin Kao
Please enter your name: Cindy
Welcome, Cindy.
You have 1000 P-dollars now.
Please enter your P-dollar bet for round 1 (1-5 or 0 for quitting the game): 1
Your cards are (a) HQ (b) HJ (c) DJ (d) D9 (e) C4
Which cards do you want to keep? 
```

Step4. Then you can see the result. You can keep playing or type 0 to end the game.

```
java -classpath src P00Casino
P00Casino Jacks or better, written by b01902135 Man-Hsin Kao
Please enter your name: Cindy
Welcome, Cindy.
You have 1000 P-dollars now.
Please enter your P-dollar bet for round 1 (1-5 or 0 for quitting the game): 1
Your cards are (a) HQ (b) HJ (c) DJ (d) D9 (e) C4
Which cards do you want to keep? abc
Okay. I will discard nothing.
Your new cards are HQ HJ DJ D9 C4
You get a Jacks or better. The payoff is 1.
You have 1000 P-dollars now.
Please enter your P-dollar bet for round 2 (1-5 or 0 for quitting the game): 
```

### ● Test method

1. I write a test mode to test if the justice of the card type is correct. If you enter "royalflush" as your name, then you will absolute get a royal flush type cards. Similarly, if you enter "straightflush", "four", "full", "three", "flush", "straight", "two", "jack" as your name, you will absolute get that type cards. By this way, I can check if my program is correct.

As a result, player could't use "royalflush", "straightflush", "four", "full", "three", "straight", "two", "jack" as their name.

```
P00Casino Jacks or better, written by b01902135 Man-Hsin Kao
Please enter your name: royalflush
Welcome, royalflush.
You have 1000 P-dollars now.
Please enter your P-dollar bet for round 1 (1-5 or 0 for quitting the game): 5
Your cards are (a) SA (b) S10 (c) SJ (d) SQ (e) SK
Which cards do you want to keep? abcde
Okay. I will discard nothing.
Your new cards are SA SK SQ SJ S10
You get a royal flush. The payoff is 4000.
You have 4995 P-dollars now.
```

2. You can use "make" to compile and type "java -classpath src P00Casino < input.in" in command line and the program will run all the type of cards one time.

### ● Output from three rounds of the game

```
Please enter your name: Cindy Kao
Welcome, Cindy Kao.
You have 1000 P-dollars now.
Please enter your P-dollar bet for round 1 (1-5 or 0 for quitting the game): 5
Your cards are (a) SA (b) CK (c) SJ (d) D10 (e) C9
Which cards do you want to keep? abcd
Okay. I will discard (e) C9 .
Your new cards are SA CK SJ D10 S3
You get nothing. The payoff is 0.
You have 995 P-dollars now.
Please enter your P-dollar bet for round 2 (1-5 or 0 for quitting the game): 5
Your cards are (a) CA (b) C9 (c) H4 (d) C4 (e) H2
Which cards do you want to keep? cd
Okay. I will discard (a) CA (b) C9 (e) H2 .
Your new cards are D9 S7 C7 H4 C4
You get a two pair. The payoff is 10.
You have 1000 P-dollars now.
Please enter your P-dollar bet for round 3 (1-5 or 0 for quitting the game): 5
Your cards are (a) HA (b) DQ (c) S9 (d) H8 (e) H5
Which cards do you want to keep? none
Okay. I will discard (a) HA (b) DQ (c) S9 (d) H8 (e) H5 .
Your new cards are CK D10 D6 D3 S2
You get nothing. The payoff is 0.
You have 995 P-dollars now.
Please enter your P-dollar bet for round 4 (1-5 or 0 for quitting the game): 0
Good bye, Cindy Kao. You played for 3 round and have 995 P-dollars now.
```

### ● Bonus

#### 1. test method

My program can test each type of cards by typeing them as input name.

2.check if the input is valid.

At step2 and step3, if you have the wrong input.(ex: type number 6 or english character at step2, you will get a warning and should input until you have a valid input.) At step3, “aabbcc” is also a invalid input, but my program can handle input with space like “a b c”, because I think that people tend to type a space between character in this condition.

```
P00Casino Jacks or better, written by b01902135 Man-Hsin Kao
Please enter your name: Cindy
Welcome, Cindy.
You have 995 P-dollars now.
Please enter your P-dollar bet for round 4 (1-5 or 0 for quitting the game): 0
Please enter your P-dollar bet for round 1 (1-5 or 0 for quitting the game): 6
Wrong input! Please enter your P-dollar bet for round 1 (1-5 or 0 for quitting the game) again: aa
Wrong input! Please enter your P-dollar bet for round 1 (1-5 or 0 for quitting the game) again: 5
Your cards are (a) DA (b) HQ (c) H5 (d) D5 (e) S2
Which cards do you want to keep? aabc
Wrong input ! You can only type character a-e or none for no card. Which cards do you want to keep? ghu
Wrong input ! You can only type character a-e or none for no card. Which cards do you want to keep? abcd
Okay. I will discard (e) S2 .
Your new cards are DA HQ H8 H5 D5
You get nothing. The payoff is 0.
You have 995 P-dollars now.
```

3.change name

At round 2 or more, you can type “change” when inputting bet, then you can change your name.

```
Please enter your P-dollar bet for round 2 (1-5 or 0 for quitting the game): change
Which name do you want to change? haha
Okay! Welcome, haha. Please enter your P-dollar bet for round 2 (1-5 or 0 for quitting the game):
```