

```

1  import random
2
3  cards = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 10, 10, 10]
4  user_cards = []
5  com_cards = []
6
7  def deal_cards():
8      global cards
9      deal = random.choice(cards)
10     return deal
11
12 def calculate_score(cards):
13     score = 0
14     for number in cards :
15         score += number
16     return score
17
18 def check_ace(cards):
19     if cards[0] == 1 and cards[1] == 10 or cards[0] == 10 and cards[1] == 1 :
20         return True
21     else :
22         return False
23
24 def check_score(score):
25     if score > 21 :
26         return True
27
28
29 def compare(user_score, computer_score):
30     result = 0
31     if user_score > computer_score :
32         result = 1
33     elif computer_score > user_score :
34         result = 2
35     elif computer_score == user_score :
36         result = 3
37     return result
38
39 def com_win():
40     print(f"Computer cards : {com_cards} current score : {calculate_score(com_cards)}")
41     print(f"You cards : {user_cards} current score : {calculate_score(user_cards)}")
42     print("Computer Win")
43
44 def user_win():
45     print(f"Computer cards : {com_cards} current score : {calculate_score(com_cards)}")
46     print(f"You cards : {user_cards} current score : {calculate_score(user_cards)}")
47     print("You Win")
48
49 while True :
50     while True :
51         play_game = input("Do you want to play a game of Blackjack? [Y/N] :")
52         user_cards.clear()
53         com_cards.clear()
54         if play_game in "Nn" :
55             break
56         elif play_game in "Yy" :
57             com_cards.append(deal_cards())
58             com_cards.append(deal_cards())
59             check_ace_com = check_ace(com_cards)

```

```

55 elif play_game in "Yy" :
56     com_cards.append(deal_cards())
57     com_cards.append(deal_cards())
58     check_ace_com = check_ace(com_cards)
59     user_cards.append(deal_cards())
60     user_cards.append(deal_cards())
61     check_ace_user = check_ace(user_cards)
62
63     if check_ace_com == True :
64         print(f"Computer cards : {com_cards} current score : {calculate_score(com_cards)+10}")
65         print(f"You cards : {user_cards} current score : {calculate_score(user_cards)}")
66         print("Computer Win")
67         break
68     else :
69         if check_ace_user == True :
70             print(f"You cards : {user_cards} current score : {calculate_score(user_cards)+10}")
71             print(f"Computer cards : {com_cards} current score : {calculate_score(com_cards)}")
72             print("You Win")
73             break
74         else :
75             print(f"Computer's first cards : {com_cards[0]}")
76             print(f"You cards : {user_cards} current score : {calculate_score(user_cards)}")
77
78     check = True
79     while True :
80         if (check) :
81             draw_cards = input("Type 'y' to get another card, type 'n' to pass:")
82             if draw_cards in "Yy":
83                 user_cards.append(deal_cards())
84                 if check_score(calculate_score(user_cards)) == True:
85                     com_win()
86                     break
87             elif calculate_score(user_cards) == 21 :
88                 user_win()
89                 break
90             else:
91                 print(f"Computer's first cards : {com_cards[0]}")
92                 print(f"You cards : {user_cards} current score : {calculate_score(user_cards)}")
93             elif draw_cards in "Nn":
94                 check = False
95                 if calculate_score(com_cards) < 16 :
96                     com_cards.append(deal_cards())
97                     if check_score(calculate_score(com_cards)) == True:
98                         user_win()
99                         break
100                 else :
101                     if compare(calculate_score(user_cards), calculate_score(com_cards)) == 1:
102                         user_win()
103                         break
104                     elif compare(calculate_score(user_cards), calculate_score(com_cards)) == 2:
105                         com_win()
106                         break
107                     elif compare(calculate_score(user_cards), calculate_score(com_cards)) == 3:
108                         print(f"Computer cards : {com_cards} current score : {calculate_score(com_cards)}")
109                         print(f"You cards : {user_cards} current score : {calculate_score(user_cards)}")
110                         print("Draw")
111                         break
112                     break
113                 else:
114                     print("Error")
115                     break
116             else:
117                 print("Error")
118                 break
119     if play_game in "Nn" :
120         break

```

```

Do you want to play a game of Blackjack? [Y/N] :y
Computer's first cards : 9
You cards : [10, 10] current score : 20
Type 'y' to get another card, type 'n' to pass:n
Computer cards : [9, 5, 6] current score : 20
You cards : [10, 10] current score : 20
Draw
Do you want to play a game of Blackjack? [Y/N] :

```