Mini Project-Blackjack

```
import random
card = [11, 2, 3, 4, 5, 6, 7, 8, 9, 10, 10, 10, 10]
bot_card = []
player_card = []
game = True
def deal_card():
    global card
    dack = random.choice(card)
    return dack

def calculate_score(card):
    score = 0
    for dack in card:
        score += dack
    return score

def check_score(score):
    if score >= 21:
        return True

def check_ace(turn):
    if turn[0] == 11 and turn[1] == 10 or turn[0] == 10 and turn[1] == 11:
        return True
    else:
        return False

def compare(user_score, computer_score):
    total = 0
    if user_score > computer_score:
        total = 1
    elif computer_score > user_score:
        total = 2
    elif computer_score == user_score:
        total = 3
    return total

def check_bot_win():
    print(f"Computer cards: {bot_card} current score:
{calculate_score(bot_card)}")
    print(f"Your cards: {player_card} current score:
{calculate_score(player_card)}")
    print("Computer Win")
```

```
def check_player_win():
    print(f"Computer cards: {bot_card} current score:
{calculate_score(bot_card)}")
    print(f"Your cards: {player_card} current score:
{calculate_score(player_card)}")
    print("You Win")


while game:
    while True:
        play = input("Do you want to play a game of Blackjack? [Y/N]: ")
        player_card.clear()
        bot_card.clear()
        if play in "Nn":
            game = False
            break
        elif play in "Yy":
            bot_card.append(deal_card())
            bot_card.append(deal_card())
            check_ace_bot = check_ace(bot_card)
            player_card.append(deal_card())
            player_card.append(deal_card())
            check_ace_player = check_ace(player_card)


            if check_ace_bot == True:
                print(f"Computer card: {bot_card} cerrent score:
{calculate_score(bot_card)-10}")
                print(f"Your card: {player_card} cerrent score:
{calculate_score(player_card)}")
                print("Computer Win")
                break
            else:
                if check_ace_player == True:
                    print(f"Your card: {player_card} cerrent score:
{calculate_score(player_card)-10}")
                    print(f"Computer card: {bot_card} cerrent score:
{calculate_score(bot_card)}")
                    print("You Win")
                    break
                else:
                    print(f"Computer's first card: {bot_card[0]}")
                    print(f"Your card: {player_card} cerrent score:
{calculate_score(player_card)}")
```

```
            check = True
            while True :
                if (check) :
                    draw_cards = input("Type 'y' to get another card, type 'n' to
pass:")
                if draw_cards in "Yy":
                    player_card.append(deal_card())
                    if check_score(calculate_score(player_card)) == True:
                            break
                    elif calculate_score(player_card) == 21 :
                        check_bot_win()
                        break
                    else:
                        print(f"Computer's first cards : {bot_card[0]}")
                        print(f"You cards : {player_card} current score :
{calculate_score(player_card)}")
                elif draw_cards in "Nn":
                    check = False
                    if calculate_score(bot_card) < 16 :
                        bot_card.append(deal_card())
                    if check_score(calculate_score(bot_card)) == True:
                        check_player_win()
                        break
                    else :
                        if compare(calculate_score(player_card),
calculate_score(bot_card)) == 1:
                            check_player_win()
                            break
                        elif compare(calculate_score(player_card),
calculate_score(bot_card)) == 2:
                            check_bot_win()
                            break
                        elif compare(calculate_score(player_card),
calculate_score(bot_card)) == 3:
                            print(f"Computer cards : {bot_card} current score :
{calculate_score(bot_card)}")
                            print(f"You cards : {player_card} current score :
{calculate_score(player_card)}")
                            print("Draw")
                            break
                        break
                else:
                    print("Error")
                    break
        else:
```

```
            print("Error")
            break
        if play in "Nn" :
            break
```

```
PROBLEMS  OUTPUT  TERMINAL  DEBUG CONSOLE

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PS C:\Users\USER> & C:/Users/USER/AppData/Local/Programs/Python/Python310/python.exe d:/Prog_Fund/Visual_Studio_Fi
Do you want to play a game of Blackjack? [Y/N]: y
Computer's first card: 11
Your card: [4, 3] cerrent score: 7
Type 'y' to get another card, type 'n' to pass:y
Computer's first cards : 11
You cards : [4, 3, 10] current score : 17
Type 'y' to get another card, type 'n' to pass:n
Computer cards: [11, 2, 8] current score: 21
Your cards: [4, 3, 10] current score: 17
You Win
Do you want to play a game of Blackjack? [Y/N]: y
Computer's first card: 4
Your card: [2, 2] cerrent score: 4
Type 'y' to get another card, type 'n' to pass:y
Computer's first cards : 4
You cards : [2, 2, 10] current score : 14
Type 'y' to get another card, type 'n' to pass:y
Computer's first cards : 4
You cards : [2, 2, 10, 6] current score : 20
Type 'y' to get another card, type 'n' to pass:y
Do you want to play a game of Blackjack? [Y/N]: n
PS C:\Users\USER>
```