**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

Text

Description automatically generated