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1  """Integration game of 21 """
2  """number game of 21 kinda like blackjack two"""
3  __author__ = " Salatheo Clay "
4
5  import random
6
7
8  def multiplicativeidentity(number_by_1):
9      """
10     passes the parameter of whatever number is entered in numberby1
11     param number_by_1:
12         """
13
14     number_times_1 = 1 * number_by_1
15     print(number_times_1)
16
17
18  def calculate_taxes_on_pizza():
19      """
20     defines the function calculate taxes on pizza where the tax is given and
21     the price of pizza is given
22         """
23     taxes = .06
24     pizza_hut_pizza = 4.79
25     tax_of_pizza = taxes * pizza_hut_pizza
26     print("the tax of a personal pan pizza is", tax_of_pizza)
27
28
29  # uses the data held in main and assigns the answer to taxofpizza
30
31  def main():
32      """
33     calculates the tax of pizza for the first function
34     Completes the multiplicative identity for the second function
35         """
36     number_by_1 = int(input('put in number to calculate the tax on pizza'))
37     calculate_taxes_on_pizza()
38     multiplicativeidentity(number_by_1)
39
40
41  main()
42  sep = ''
43  (9 * 9)
44  # multiplication
45  (9 / 9)
46  # division gets 1
47  (15 // 4)
48  # remainder division divides to the highest point without remainder
49  (15 % 4)
50  # modulus outputs the remainder of the quotient
51  ("sal" + "atheo")
52  # adds 2 strings together end by end
53  ("hello" * 3)
54  # prints hello 3 times
55  (9 != 5)
56  # boolean operator b=not and equal
57  for x in range(4, 1, -1):
58      print("game starting in", x - 1)
59  # for function countdown the numbers from 3 by intervals of -1
60

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61
62 game = True
63 if not game:
64     print("game is true")
65 # not statement prints game is true if game was = False
66
67 name = input("what is your name")
68 name_2 = input("what is player two's name")
69 print("hello", name, "and", name_2)
70 print("today you will be playing a game of 21", name, "and", name_2)
71 print("you will be playing against a friend")
72 print("you and the other player will draw a number")
73 print("the goal is to be the closest to the number 21 without going over")
74
75 player_total_1 = 0
76 player_total_2 = 0
77 hitvalue = 0
78 hitvalue2 = 0
79 answer_evaluate = True
80 answer_evaluate2 = True
81 player_continue_confirmation = False
82 player_continue_confirmation2 = False
83
84 while answer_evaluate:
85     # loop that determines if answer is valid or not
86     player_continue = input(
87         "Enter yes if you would like to begin player 1 ")
88     if player_continue == "yes":
89         answer_evaluate = False
90         # boolean operator == is used meaning player continue equals yes
91         player_continue_confirmation = True
92         # if statement that when entered yes while player can play the game
93     else:
94         answer_evaluate = True
95         print("invalid response")
96
97 while player_continue_confirmation:
98
99     player_continue = input("Enter yes if you would like to hit,no to stop")
100     if player_continue == "yes":
101         hitvalue += random.randrange(1, 11)
102         player_total_1 += hitvalue
103         print(name, "your hit value was", hitvalue)
104         print(name, "your new player total is", player_total_1)
105
106         player_continue_confirmation = True
107         # when no is entered the loop ends
108     elif player_continue == "no":
109         player_continue_confirmation = False
110     else:
111         print("please enter yes for another hit, no to stop")
112         #anything besides yes or no will not be accepted
113 answer_evaluate2 = True
114 player_continue_confirmation2 = False
115 while answer_evaluate2:
116     # loop that determines if answer is valid or not
117     player_continue2 = input(
118         "Enter yes if you would like to begin, no to stop, player 2")
119     if player_continue2 == "yes":
120         answer_evaluate2 = False

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121         # boolean operator == is used meaning player continue equals yes
122         player_continue_confirmation2 = True
123         # if statement that when entered yes while player can play the game
124         elif player_continue2 == "no":
125             player_continue_confirmation2 = False
126             answer_evaluate = False
127         else:
128             print("invalid response")
129             answer_evaluate2 = True
130     print("it is now your turn", name_2)
131     while player_continue_confirmation2:
132         player_continue2 = input("Enter yes if you would like a hit no to stop")
133
134         if player_continue2 == "yes":
135             hitvalue2 += random.randrange(1, 11)
136             player_total_2 += hitvalue2
137             print("your hit value was", hitvalue2)
138             print("your new player total is", player_total_2)
139             player_continue_confirmation2 = True
140         elif player_continue2 == "no":
141             player_continue_confirmation2 = False
142         else:
143             print("invalid answer try again")
144
145     print(name, " final playertotal was", player_total_1)
146     print(name_2, "final playertotal was", player_total_2)
147     # being added to player total
148     # fix addition to player score
149     # if statements evaluate player total compares to other player and 21
150     # awards winner
151     if player_total_2 < player_total_1 < 21:
152         print(name, "wins congrats!")
153
154     elif player_total_1 < player_total_2 < 21:
155         print(name_2, "wins congrats!")
156
157     elif player_total_1 > 21 > player_total_2:
158         print(name_2, "wins congrats")
159
160     elif player_total_1 < 21 < player_total_2:
161         print(name, "congrats")
162
163     elif player_total_1 == player_total_2:
164         print(name, "and", name_2, "draw")
165     elif player_total_1 and player_total_2 > 21:
166         print("no one wins")
167
168     print("thanks for playing", end=' have a nice day')
169

```