


```
51         self.deck.append(card)
52     for card in range(n_defensive_cards):
53         card = self.defensive_cards[rd.randint(0, len(self.defensive_cards) -
54 )]
54         self.deck.append(card)
55
56     def shuffleDeck(self):
57         self.isShuffled = True
58         rd.shuffle(self.deck)
59
60
61     def printDeck(self):
62         n = 1
63         for card in self.deck:
64             print(n, card.name)
65             n += 1
66
67     def showDeck(self):
68         pass
69
70 # Class CardUser is the class for player and enemies. A card user has a hand, a
71 # deck, health_points and a status.
72 # There are the functions showStatus which shows the health and the status and
73 # useCard that has
74 class CardUser:
75
76     def __init__(self):
77         self.hand = []
78         self.deck = []
79         self.health_points = 20
80
81     def showStatus(self):
82         pass
83
84     def useCard(self, card, target):
85         pass
86
87     def applyCardEffect(self, card, target):
88         pass
89
90
91     def removeCardFromHand(self, card):
92         pass
93
94
95 # Class Player inherits from CardUser, however here with have a set health_points
96 # value
97 class Player(CardUser):
98
99     def __init__(self, health_points = 20):
100        super().__init__()
101        self.health_points = health_points
102
103    def giveDeck(self, deck):
104        self.deck = deck
105
106    pass
107
108
109 # Class Enemy inherist from CardUser
110 class Enemy(CardUser):
```

```
107     pass
108
109
110 class Admin:
111     pass
112
113
114 # Class Game will take care of the interactions of the user.
115 class Game:
116
117     def __init__(self):
118
119         self.player = None
120         self.enemies = []
121         self.current_floor = 0
122         self.isGameStarted = False
123
124         self.quit = False
125         self.isDeckCreated = False
126         self.isDeckShuffle = False
127         self.isGameStarted = False
128         self.isPlayingCreated = False
129         self.isTypeUser = False
130         self.commands = dict()
131
132         self.offensive_cards_dic = {
133             0: Card("FireBall", "offensive", -5, "burn", "Inflict 5 damages to the
targeted entity"),
134             1: Card("Ice Spike", "offensive", -3, "freeze", "Inflict 3 damage to
targeted entity"),
135             2: Card("Burn", "offensive", 0, "burn", "Inflict burning effect to the
target")
136         }
137
138         self.defensive_cards_dic = {
139             0: Card("Heal", "defensive", +5, None, "Heal 5 health points to
target"),
140             1: Card("Block", "defensive", 6, "prevent", "Prevent next turn damage")
141         }
142
143
144     # Add a command manager with commands dic. To have a single function that
manages
145     # Main process of the CLI.
146     def main(self):
147
148
149         print("--- Welcome in the SPOP of Gabriel S.J. Spadoni ---")
150         print(" --- Type help to display the available commands and their description
---")
151         print(" --- Enter your user type ---")
152
153         while not self.isTypeUser:
154             command = input(" --- Type your command --- ")
155
156             if command == 'player':
157                 player = Player()
158                 self.isPlayingCreated = True
159                 self.isTypeUser = True
160             elif command == 'admin':
```

```
161         print("--- admin not supported --- ")
162     else:
163         print('--- Enter your user type: player or admin ---')
164
165     while not self.quit:
166
167         command = input("--- Type your command --- ")
168
169         command = command.split(' ')
170
171
172         if command[0] == 'quit':
173             self.quit = True
174         elif command[0] == 'help':
175             print("--- Commands are: ---")
176             print("--- createDeck: creates a deck of random cards taken from the
card pool ---")
177             print("--- showDeck: shows the cards in the deck --- ")
178             print("--- shuffleDeck: shuffles the deck --- ")
179             print("--- quit: quit the software --- ")
180         elif command[0] == 'createDeck':
181             deck = Deck(self.offensive_cards_dic, self.defensive_cards_dic)
182             deck.createDeck()
183             print("--- Deck Created! --- ")
184             self.isDeckCreated = True
185         elif command[0] == 'showDeck':
186             if self.isDeckCreated:
187                 print("--- Deck contains --- ")
188                 deck.printDeck()
189             else:
190                 print('--- Deck not created! --- ')
191         elif command[0] == 'shuffleDeck':
192             if self.isDeckCreated:
193                 deck.shuffleDeck()
194                 self.isDeckShuffled = True
195                 print('--- Deck succesfully shuffled! --- ')
196             else:
197                 print('--- Deck not created! --- ')
198         elif command[0] == 'startGame':
199             if self.isDeckCreated and self.isDeckShuffled and
self.isPlayingCreated:
200                 player.giveDeck(deck)
201                 print('--- The game has started! --- ')
202                 self.isPlayingStarted = True
203             else:
204                 print("--- Game can't be started ---")
205         else:
206             print("--- Unknown Command. Try again! --- ")
207
208
209
210
211     def startFight(self, player, enemy):
212         pass
213
214
215 game = Game()
216
217 game.main()
```