```
class tmpTask(object): tosh played by agent (piching from dech A,B,C)
                                                                                          # melling trop Taslet
    ::Arguments::
        preward (list): 1xN vector of reward probabilities for each of N bandits
        rvalues (list): 1xN vector of payout values for each of N bandits
                          constructors trap Table initialize the object's attributes
    def __init__(self):
       #print(self.all_cards)
#self.deck_gains = self.all_cards.sum()
                                                       bypart scale intercept divide index
    #return self.all cards that uncommentable creates now array of give then error until added the error until added the error until added the shaped type the the three transfer that como shaped type the three counters inp. zeros (len (self.all_cards), dtype = tuple) bechanged
        self.deck_counters = np.zeros(len(self.all_cards.columns), dtype = int)
       #print(self.all_cards)
      // #print(self.all_cards.columns)
       walk not print will will col.
        if self.deck_counters[action_ix] == 49:
    def get feedback(self, action ix):
went core else:
  self.deck_counters[action_ix] += 1 gov
                                     Tprimary int postion from 0 to len-1 ... gives pos. of cond indeed where
 r down of curr_counter = self.deck_counters[action_ix]
        feedback = self.all_cards.iloc(curr_counter, action_ix)
        return feedback
```

```
class Qagent(object):
    """ defines the learning parameters of single q-learning agent
    in the High-Frequency Addictive Dopamine Reinforcement Task
    ::Arguments::
        alpha_g (float): learning rate for gains
        alpha_1 (float): learning rate for losses
        beta (float): inverse temperature parameter
        gamma (float): sensitivity to reward or losses
        preward (list): 1xN vector of reward probabilities for each of N decks
        rvalues (list): lxN vector of payout values for each of N decks
                       IF rvalues is None, all values set to 1
        pvalues (list): 1xN vector of punishment values for each of N decks
                        IF rvalues is None, all values set to 1
    def __init__(self, alpha_g,
                       alpha 1,
                       gamma,
                       decks=['A', 'B', 'C']):
        if decks is None:
            decks = ['A', 'B', 'C']
        # calling tmpTask() function with arguments in Qagent() object
        self.tmpTask = tmpTask()
        self.alpha_data = []
        self.rpe_data = []
        # setting parameters passed through Qagent() as arguments
        self.set_params(alpha_g=alpha_g, alpha_l=alpha_l, beta=beta, gamma=gamma, decks=decks)
```