PPL Assignment

API Documentation

February 26, 2017

Contents

1 Module Couple

1.1 Variables

Name	Description
__package__	**Value:** None

1.2 Class Couple

1.2.1 Methods

__**init**__(*self, boy, girl, gift_list, happiness*=0)

:param boy: boy object :param girl: girl object :param gift_list: list of gift object :param happiness: happiness of couple

---

allocate_gifts(*self, gift_list*)

Allocates gift from given gift lisr :param gift_list: list of gift objects :return:

---

set_happiness(*self*)

Calculates boy's and girl's happiness individually and adds it. :return:

---

get_compatibility(*self*)

Calculates compatibility of the couple :return:

---

2   Module app

2.1   Functions

main()

2.2   Variables

Name	Description
ˍˍpackageˍˍ	**Value:** `None`

3 Module boy

3.1 Variables

Name	Description
__package__	**Value:** None

3.2 Class Boy

Class for boy

3.2.1 Methods

__**init**__(*self, name, attractiveness, min_attraction, intelligence, budget, category, single=1, happiness=0*)

__**str**__(*self*)

change_commitment(*self*)

4   Module gift

4.1   Variables

Name	Description
__package__	**Value:** None

4.2   Class EssentialGift

4.2.1   Methods

__**init**__(*self, name, price, value*)

:param name: name of gift :param price: price of gift :param value: value of the gift

---

4.3   Class LuxuryGift

4.3.1   Methods

__**init**__(*self, name, price, value, difficulty, rating*)

:param name: name of gift :param price: price of gift :param value: value of gift :param difficulty: difficulty in obtaining the gift :param rating: rating of the gift

---

4.4   Class UtilityGift

4.4.1   Methods

__**init**__(*self, name, price, value, utility_value, utility_class*)

:param name: name of gift :param price: price of gift :param value: value of gift :param utility_value: utility value of gift :param utility_class: utlility class of gift

---

5 Module girl

5.1 Variables

Name	Description
__package__	**Value:** None

5.2 Class Girl

Class for girl

5.2.1 Methods

__init__(*self*, *name*, *attractiveness*, *intelligence*, *budget*, *category*, *single*=1, *happiness*=0)

:param name: Name of the girl :param attractiveness: attractiveness of the girl :param intelligence: intelligence of the girl :param budget: maintenance budget if the girl :param category: Category of the girl, wither choosy, normal or desperate :param single: single status, either 0 or 1 :param happiness: happiness of girl

---

__str__(*self*)

---

change_commitment(*self*, *val*=0)

change commitment status to given value :param val: :return:

---

6 Module helper

6.1 Functions

form_couple(*boy*, *girl*)
Takes a boy and girl and forms it couple :param boy: boy object :param girl: girl object :return:

get_boy_list()
Autogenerates a random boy list :return:

get_girl_list()
autogenerates a random girl list :return:

get_gift_list(*filename*)
Extracts gift data from csv file :param filename: filename of the csv file :return: list of gift objects

6.2 Variables

Name	Description
__package__	**Value:** None

Index