Subject: Re: Zoom meeting invitation - Kartikeya Mishra's Zoom Meeting
From: Zeid Kootbally <zeidk@umd.edu>
Date: 3/18/22, 15:02
To: Kartikeya Mishra <kmishra@umd.edu>

Hi Katikeya,
Ok, your explanations make sense. I just don't like the abstract method you are using.
Try to at least make __str__ an abstract method.

BaseRobot has to be abstract in this case, we don't want an instance of BaseRobot
since we have robots which belong in specific categories. Allowing the user to create
an instance of BaseRobot does not make sense in this case. pickup_part and place_part
are defined because all robots use these methods. pick_tray and place_tray are specific
to gantry.

Make sure you follow the instructions for future assignments. I provide instructions to
the grader and he applies them for everyone.

Unfortunately my boss created a meeting for today and I will not be able to make it to
our meeting. I would say your code is ready for submission. I will let the grader know
about what we discussed.

Thank you,

zeid

On Fri, Mar 18, 2022 at 1:03 PM Kartikeya Mishra <kmishra@umd.edu> wrote:

> ***My follow-ups in italics and bold***
>
> On 3/18/22 11:45, Zeid Kootbally wrote:
>
>> Hi Kartikeya
>> I went through your code. Here are some suggestions.
>> - Modify the comment here https://github.com/silentkarmi/rwa2_mishra_k
>> /blob/8c5cb43415d76dc5f38be6a577a4256d89441263/main/planner.py#L31
>
> **>> *Done (Sorry for the misspelled word, I meant 'ship', I didn't even realize this mistake)***
>
>> - In your documentation, replace _type_ with the actual type for your variables.
>
> **>> *Done***
>
>> - You have a module named main and it has planner.py. Rename this module to
>> planner.
>
> **>> *Done***
>
>> - Your class Order consists only of data. I don't see any getter or setter in this class.
>> Is it actually being used? If not, get rid of this class. If it is used, where do you
>> modify the attribute values in your program? You should think about converting

this class into a dictionary for it to make more sense.

>> *This class is being used, when we ask for the order for kitting. And, then reused in the planner to formulate the plan for the actions. It's all fields are public for easier manipulation of data. Adding getter and setter would be just redundant here. Using dictionary is also fine by me, if you tell me to do so for the assignment. I am just used to having my data in OOPs. Habit from C++. :)*

```
order = ask_for_order(planner)
planner.generate_plan(order)
```

- You did not follow the instructions for the abstract methods in BaseRobot. You made a dummy function an abstract method.You are then providing an empty body for this method in the derived classes.

>> *I don't know, how else I would implement what you requested. I am not clear on it. Actually, my BaseRobot don't have to be Abstract. Because, the code for pickup_part and place_part are being reused in derived classes and I don't want to override my definitions. Only, Gantry robot has additional functions which are pickup_tray and place_tray which are added into derived class*

In the pdf file you were asked to made 2 methods abstract and then provide an implementation of these methods in the derived classes. Make sure you follow the instructions.

>> *I have this function below which is synonymous to _find_part() but it is the part of the implementation of Planner.py. The reason is Planner has access to bins, not the Robots. Actually, this is the class which is acting as brain. Only, simple operation is given to robots.*

```
def search_bins_for(self, part_type):
```

>> *Also, I don't need _remove_part_from_bin(), because its already taken care of when we pickup and place the part as part of the definition, of the bin -> get_part()*

```
 self.gripper.object_held = bin_obj.get_part() # removes that part from the bin

#in bin class get_part()
    def get_part(self):
        part = None
        if self.parts:
            part = self.parts.pop()
        return part
```

You are free to not use the dictionary provided in the pdf file but the other instructions must be followed.

>> *Thanks for allowing me not to use dictionary. I might have a slight aversion for them. :)*

Let me know if you still want to meet today.

zeid

On Thu, Mar 17, 2022 at 8:31 PM Kartikeya Mishra <kmishra@umd.edu> wrote:

> Dear Professor,
>
> You already have access to the github project.
>
> But the url has changed:
>
> https://github.com/silentkarmi/rwa2_mishra_k
>
> On 3/15/22 00:16, Kartikeya Mishra wrote:
>
>> Kartikeya Mishra is inviting you to a scheduled Zoom meeting.
>>
>> Topic: Kartikeya Mishra's Zoom Meeting
>> Time: Mar 18, 2022 03:00 PM Eastern Time (US and Canada)
>>
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>> 213.244.140.110 (Germany)
>> 103.122.166.55 (Australia Sydney)

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149.137.40.110 (Singapore)
64.211.144.160 (Brazil)
149.137.68.253 (Mexico)
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Meeting ID: 462 018 7474

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Regards,
Kartikeya Mishra
UID: 118106755

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