

GENESIS – Python Project 1



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Details

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The To-Do List App

Git hub link: https://github.com/99003155/todolist/blob/main/1_python.py

Code

```
# import the sys modules

import sys

# global variable declared to count each of the work to be done

count = 0

# create class with functions to be performed

class WorkToDo:

    # constructor

    def __init__(self):
        self.work = []

    # insert a new task

    def start_work(self, work_todo):
        self.work.append(Work(work_todo))

    # find the completed task

    def find(self, cnt):
        for work_todo in self.work:
            if str(work_todo.id) == str(work_todo.id):
                return work_todo
        return None

    # complete a task

    def end_work(self, cnt):
        task = self.find(cnt)

# create Work class

class Work:

    # constructor

    def __init__(self, work_todo):
        self.work_todo = work_todo
        global count
        count += 1
```

```
self.id = count
```

```
# main class
```

```
class Main:
```

```
    # constructor
```

```
    def __init__(self):
        self.worktodo = WorkToDo()
        self.options = {'1': self.start, '2': self.end, '3': self.exit}
```

```
    # display the list
```

```
    def choose(self):
        print ("""
        WELCOME TO THE TO-DO LIST
        Please choose your option
        1. Work to do today
        2. Work completed
        3. Exit application
        """)
```

```
# run the functions
```

```
    def begin(self):

        while True:
            self.choose()
            number = input('Choose your option ')
            task = self.options.get(number)
            if task:
                task()
            else:
                print ('Invalid'.format(number))
```

```
        # add the work to be done
```

```
    def start(self):
        work_todo = input('What do you want to do today?\n >')
        self.worktodo.start_work(work_todo)
        print ("Task entered")
```

```
    # enter the completed task
```

```
    def end(self):
        id = input('Enter option number: ')
        print ('Hurray! Work done')
```

```
    # exit the application
```

```
    def exit(self):
        print ("Thank you. Have a great day")
        sys.exit(0)
```

```
if __name__ == '__main__':  
    Main().begin()
```

PEP8 online

PEP8 online

Check your code for **PEP8** requirements

All right

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Your code

```
1  # import the sys modules  
2  
3  import sys  
4  
5  # global variable declared to count each of the work to be done  
6  
7  count = 0  
8  
9  
10 # create class with functions to be performed  
11  
12 class WorkToDo:  
13  
14     # constructor  
15
```