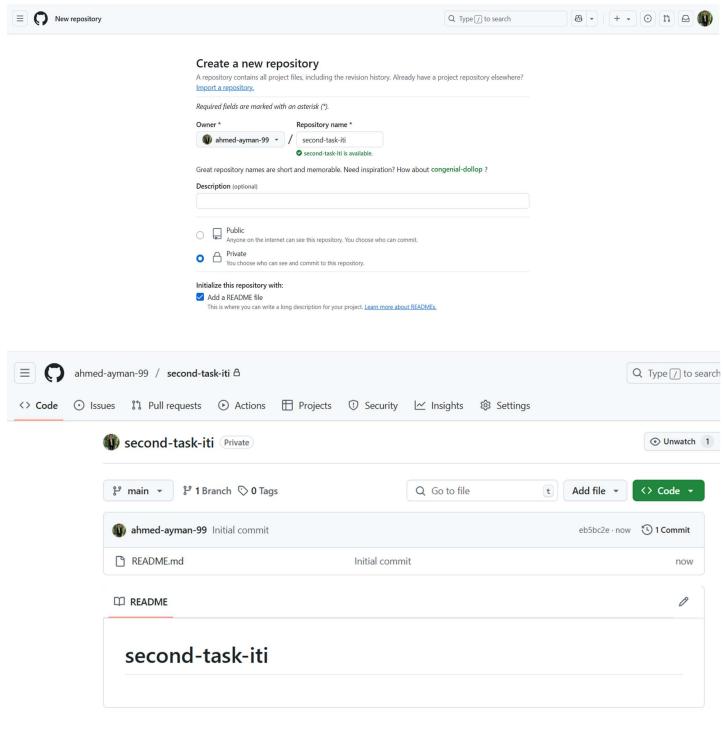
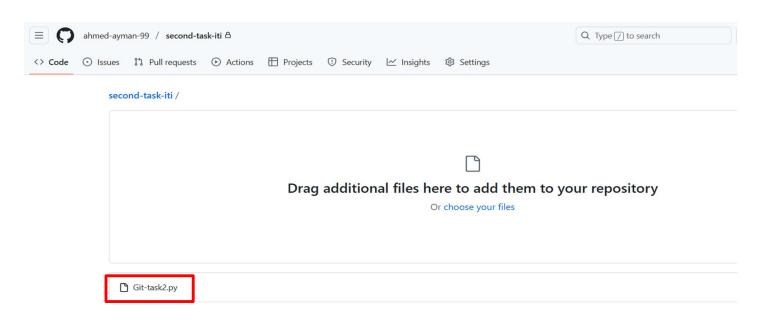
Git & GitHub Task Second Task

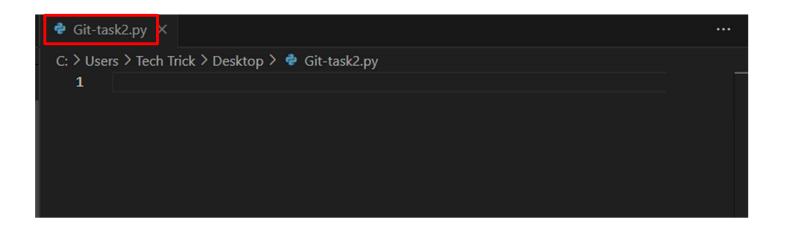
• Create Repo:



<u>Link Repo: ahmed-ayman-99/second-task-iti</u>

upload empty python file to repo:





Open Gitbash and start initialize and cloning:

```
Tech Trick@AhmedAyman MINGW64 ~ (main)
$ cd desktop
 Tech Trick@AhmedAyman MINGW64 ~/desktop (main)
$ mkdir git-task2
 Tech Trick@AhmedAyman MINGW64 ~/desktop (main)
$ cd git-task2
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2 (main)
$ git init
 Initialized empty Git repository in C:/Users/Tech Trick/Desktop/git-task2/.git/
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2 (master)
$ git branch -m main
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2 (main)
$ git remote add origin https://github.com/ahmed-ayman-99/second-task-iti
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2 (main)
$ git remote --v
 origin https://github.com/ahmed-ayman-99/second-task-iti (fetch)
 origin https://github.com/ahmed-ayman-99/second-task-iti (push)
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2 (main)
$ git clone https://github.com/ahmed-ayman-99/second-task-iti
 Cloning into 'second-task-iti'...
 remote: Enumerating objects: 6, done.
 remote: Counting objects: 100% (6/6), done.
 remote: Compressing objects: 100% (3/3), done.
 remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
 Receiving objects: 100% (6/6), done.
```

• Create first branch "dev1" and add class person – class employee

```
Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2 (main)
 second-task-iti/
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2 (main)
$ cd second-task-iti
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
 Git-task2.py README.md
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
$ git branch dev1
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
$ git checkout dev1
 Switched to branch 'dev1'
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (dev1)
$ git add .
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (dev1)
$ git commit -m"class person - employee
 [dev1 9138db0] class person - employee
  1 file changed, 64 insertions(+)

    Create second branch "dev2" and add class office – class car
```

```
Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (dev1)
$ git checkout main
 Switched to branch 'main'
 Your branch is up to date with 'origin/main'.
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
$ git branch dev2
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
$ git checkout dev2
 Switched to branch 'dev2'
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (dev2)
$ git add .
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (dev2)
• $ git add .
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (dev2)
$ git commit -m "class office - car"
  [dev2 c30b773] class office - car
  1 file changed, 85 insertions(+)
```

• Create third branch "dev3" and add inputs and commands

```
Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (dev2)
$ git checkout main
 Switched to branch 'main'
 Your branch is up to date with 'origin/main'.
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
$ git branch dev3
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
$ git checkout dev3
 Switched to branch 'dev3'
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (dev3)
$ git add .
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (dev3)
$ git commit -m"inputs - commands"
  [dev3 1107173] inputs - commands
  1 file changed, 64 insertions(+)

    Merge dev1 to main

 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (dev3)
$ git checkout main
```

Merge dev2 to main

```
Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)

$ git merge dev2
Auto-merging Git-task2.py
CONFLICT (content): Merge conflict in Git-task2.py
Automatic merge failed; fix conflicts and then commit the result.
```

Solve merging conflict by adding the whole code together in one page:

Resolve in merge editor ----→ complete merge

```
Merging: Git-task2.py!
second-task-iti > 🕏 Git-task2.py > 😭 Car > 🕤 stop
Incoming \( \phi \) c30b773 \( \cdot \) refs/heads/dev2
                                               Current 9138db0 • refs/heads/main, refs/... 🗸 📆
       class office:
            employeesNums = 0
                                                           def init (self, name, mone
                                                                self.name = name
                  init (self,name):
                                                                self.money = money
                self.name = name
                                                                self.mood = mood
                                                                self.healthrate = healthr
                self.employees = []
            def hire(self, employee):
                                                           def sleep(self,h):
                self.employees.append(empl
                                                                         self.mood = "happ
                office.employeesNums += 1
  11
Result Git-task2.py
         Current + Incoming | Remove Current | Remove Incoming
         class Person:
                    init_(self, name, money, mood, healthrate):
                  self.name = name
                  self.money = money
                  self.mood = mood
                  self.healthrate = healthrate
             def sleep(self,h):
                          self.mood = "happy"
                      elif h < 7:
                          self.mood = "tired"
                          self.mood = "lazy"
             def eat(self,meals):
                                                                 Complete Merge
                      if meals >= 3:
                          self.healthrate = "100%"
```

• Add and commit "main branch" after solving merge conflict wit "dev2"

```
Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main|MERGING)

$ git add .

Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main|MERGING)

$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

All conflicts fixed but you are still merging.
(use "git commit" to conclude merge)

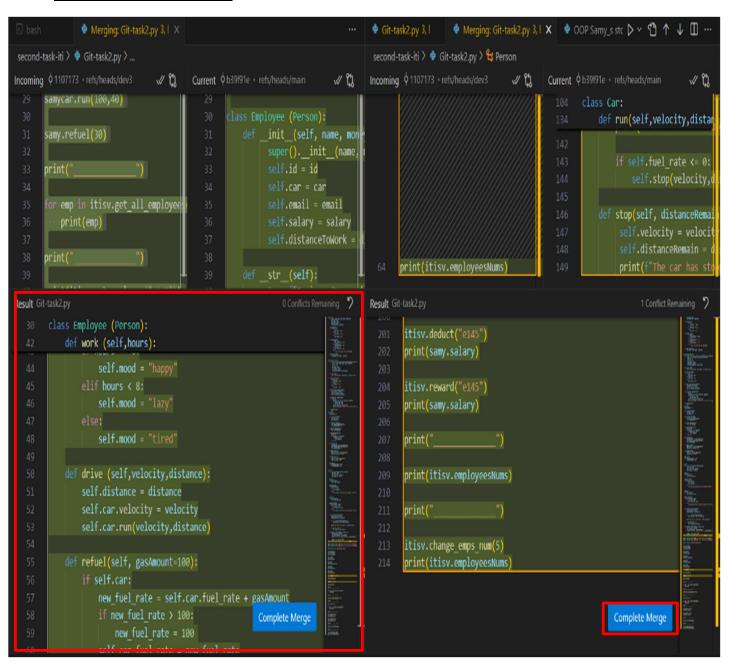
Changes to be committed:
    modified: Git-task2.py

Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main|MERGING)

$ git commit -m "merge main with dev2"
[main b39f91e] merge main with dev2
```

Merge dev3 to main

• Resolve in merge editor



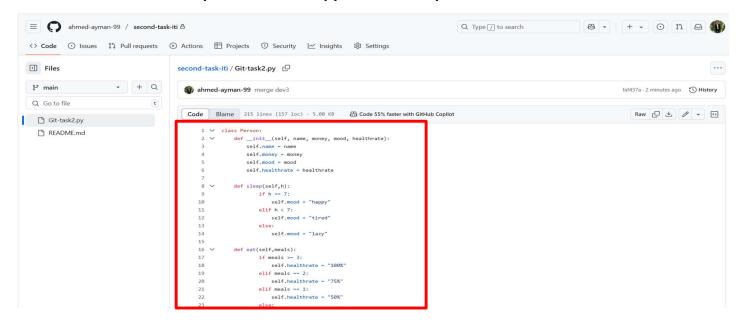
After resolve conflict while merging dev3

- Add and commit to main branch
- Then push main branch

```
Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main|MERGING)
$ git add .
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main|MERGING)
$ git status
 On branch main
 Your branch is ahead of 'origin/main' by 3 commits.
   (use "git push" to publish your local commits)
 All conflicts fixed but you are still merging.
   (use "git commit" to conclude merge)
 Changes to be committed:
         modified: Git-task2.py
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main|MERGING)
$ git commit -m "merge dev3"
 [main faf437a] merge dev3
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
$ git branch
   dev1
   dev2
   dev3
 * main
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
$ git push -u origin main
 Enumerating objects: 17, done.
 Counting objects: 100% (17/17), done.
 Delta compression using up to 4 threads
 Compressing objects: 100% (15/15), done.
 Writing objects: 100% (15/15), 2.65 KiB | 301.00 KiB/s, done.
 Total 15 (delta 6), reused 0 (delta 0), pack-reused 0 (from 0)
 remote: Resolving deltas: 100% (6/6), done.
 To https://github.com/ahmed-ayman-99/second-task-iti
    af7498b..faf437a main -> main
 branch 'main' set up to track 'origin/main'.
```

• Check the repo in GitHub

The whole code is pushed there "appear in the repo".



```
✓ class Person:

            def __init__(self, name, money, mood, healthrate):
 2
 3
                self.name = name
 4
                self.money = money
 5
                self.mood = mood
 6
                self.healthrate = healthrate
 7
8
           def sleep(self,h):
9
                    if h == 7:
                        self.mood = "happy"
10
11
                    elif h < 7:
12
                        self.mood = "tired"
13
                    else:
                        self.mood = "lazy"
14
15
           def eat(self, meals):
16
17
                    if meals >= 3:
                        self.healthrate = "100%"
18
                    elif meals == 2:
19
20
                        self.healthrate = "75%"
                    elif meals == 1:
21
                        self.healthrate = "50%"
22
23
                         return f"you should eat now,{self.name}"
24
25
            def buy (self,items):
26
                 self.money = self.money - (items*10)
27
28
29
30 ∨ class Employee (Person):
```

• Log and Reflog and Branches from The Bash:

```
Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
 $ git reflog
 faf437a (HEAD -> main, origin/main, origin/HEAD) HEAD@{0}: commit (merge): merge dev3
 b39f91e HEAD@{1}: commit (merge): merge main with dev2
 9138db0 (dev1) HEAD@{2}: merge dev1: Fast-forward
 af7498b HEAD@{3}: checkout: moving from dev3 to main
 1107173 (dev3) HEAD@{4}: commit: inputs - commands
 af7498b HEAD@{5}: checkout: moving from main to dev3
 af7498b HEAD@{6}: checkout: moving from dev2 to main
 c30b773 (dev2) HEAD@{7}: commit: class office - car
 af7498b HEAD@{8}: checkout: moving from main to dev2
 af7498b HEAD@{9}: checkout: moving from dev1 to main
 9138db0 (dev1) HEAD@{10}: commit: class person - employee
 af7498b HEAD@{11}: checkout: moving from main to dev1
 af7498b HEAD@{12}: clone: from https://github.com/ahmed-ayman-99/second-task-iti
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
s git log -oneline
 fatal: unrecognized argument: -oneline
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
$ git log --oneline
 faf437a (HEAD -> main, origin/main, origin/HEAD) merge dev3
 b39f91e merge main with dev2
 1107173 (dev3) inputs - commands
 c30b773 (dev2) class office - car
 9138db0 (dev1) class person - employee
 af7498b Add files via upload
 eb5bc2e Initial commit
 Tech Trick@AhmedAyman MINGW64 ~/desktop/git-task2/second-task-iti (main)
 $ git branch
   dev1
   dev2
   dev3
 * main
```