## 第六周学习报告

首先新建 environment.yml 文件,然后创造 conda 环境。

```
(base) donghengxu@donghengxudeMacBook-Air week06 % conda env create
 Downloading and Extracting Packages:
 #
# To activate this environment, use
    $ conda activate week06
 # To deactivate an active environment, use
# $ conda deactivate
(base) donghengxu@donghengxudeMacBook-Air week06 % conda env list
 # conda environments:
```

运用 pdb 调试器理解猜数字游戏代码运行流程

- 1、random.randint(1, 100): 随机生成 1-100 之间的数字
- 2、while 条件循环,break 可跳出循环

```
[(PdD)
[(第 1 次尝试) 请输入你猜的数字 (输入整数,或者输入 q 回车退出): q
""> /Users/donghengxu/repo/week06/guessing_game.py(17)guessing_game()
-> guess = guess.strip() # 去除多余空白字符
  [(Pdb) p guess
  (Pdb) n
  > /Users/donghengxu/repo/week06/guessing_game.py(19)guessing_game()
   -> if guess == "q":
  [(Pdb)
   > /Users/donghengxu/repo/week06/guessing_game.py(20)guessing_game()
   -> break
  > /Users/donghengxu/repo/week06/guessing_game.py(46)guessing_game()
-> print("游戏结束,再见 👋。")
```

3、continue 跳至下一循环,该代码即从 while 循环重新开始

```
-> if guess < secret_number:
[(Pdb) p secret_number
(Pdb) n
> /Users/donghengxu/repo/week06/guessing_game.py(40)guessing_game()
-> if guess > secret_number:
>> /Users/donghengxu/repo/week06/guessing_game.py(41)guessing_game()
-> print("猜的数字太大了,再试试 💽 ")
(Pdb)
(1997)
清的数字太大了,再试试〗
> /Users/donghengxu/repo/week06/guessing_game.py(42)guessing_game()
> /Users/donghengxu/repo/week06/guessing_game.py(11)guessing_game()
(Pdb)
```

- 4、if 条件分支
- 5、try...except...处理异常

## 6、raise 主动抛出异常

## 语句例子运行结果:

```
(week06) donghengxu@donghengxudeMacBook-Air week06 % python flow_controls.py
apple, ok
cherry, ok
e
1
0
1
2
3
4
name
grade
name: Alice
age: 20
grade: A
1
2
3
4
1 到 10 的整数之和为 55
当前处理的数字是: 1
当前处理的数字是: 2
当前处理的数字是: 3
当前处理的数字是: 4
当前处理的数字是: 5
请输入内容(输入 quit 退出):1
你输入的是: 1
请输入内容(输入 quit 退出): quit
(week06) donghengxu@donghengxudeMacBook-Air week06 %
```

## 所编写的函数代码运行结果

```
[(week86) donghengxu@donghengxudeMacBook-Air week86 % python myjob.py 9 23 0.0710678118654755 None func1() takes 0 positional arguments but 1 was given 1.3666002653407556 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006306 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.2917960675006 -0.29179606 -0.291796
```

把 mylib 模块转变为 软件包 (package) 安装进当前的 Conda 环境来使用

import mylib 失败, 这是由于 mylib 并没有打包成 软件包 (package) 安装

```
[(week06) donghengxu@donghengxudeMacBook-Air week06 % python myjob.py ]
python: can't open file '/Users/donghengxu/repo/week06/myjob.py': [Errno 2] No such fi
le or directory
(week06) donghengxu@donghengxudeMacBook-Air week06 %
```

```
pyproject.toml
   [project]
   name = "mypackage"
   version = "2025.4.14"
   dependencies = [
       "openpyxl",
   authors = [
    {name = "hengxudong", email = "1513267392@qq.com"},
   description = "测试用的软件包"
   [project.optional-dependencies]
   dev = [
    "pytest",
   [build-system]
   requires = ["hatchling"]
   build-backend = "hatchling.build"
   [tool.hatch.build.targets.wheel]
   packages = [
     "src/mypkg",
yjob.py 1, U
              __init__.py U
                                 pyproject.toml U
                                                       ! environment.yml
      name: week06
      channels:
       conda-forge
      dependencies:
        - python=3.12
        - wat-inspector
        - pip
        - pip:
        - "--editable ."
  9
```