Unit 7 – Exploring a simple python shell

In this session, you will create a command shell in Python, and then run it and answer questions about it.

When you enter the command LIST it lists the contents of the current directory

```
📢 File Edit Selection View Go Run Terminal Help
                                                                      • mycli.py - Visual Studio Code
      mycli.py
      C: > Users > KIKE > Desktop > pythonprojects > 🏓 mycli.py > ...
                      for file in dir:
                          print(file)
                 def help_add(self):
                     print("Adds 2 numbers together.")
                  def help_exit(self):
船
                      print("Exits the prompt.")
Д
                  def help_list(self):
                      print("Lists the contents of the present directory")
             p = MyPrompt()
             p.cmdloop()
        44
                           TERMINAL
                                     DEBUG CONSOLE
       Try the new cross-platform PowerShell https://aka.ms/pscore6
       PS C:\Users\KIKE> & C:/Users/KIKE/AppData/Local/Programs/Python/Python310/python.exe c:/Users/KIKE/E
       Welcome! type help to list avaialable commands
       >>> list
       cli1.py
       djangoCRUD
       mycli.py
       myflask
       myflask.py
       myshell.py
       plaintext.txt
       plaintext2.txt
       rot13.py
       >>>
```

 The ADD command will add the following two numbers together and provide the result.

```
>>> add
5
2
'5' + '2' + equals '7'
>>> add
5
jhgkj
Invalid input, enter integers only
>>>
```

The HELP command provides a list of commands available

```
>>> help

Documented commands (type help <topic>):

-------
add exit help list

>>>
```

The EXIT command exits the shell

- What are the two main security vulnerabilities with your shell?
- What is one recommendation you would make to increase the security of the shell?
- Add a section to your e-portfolio that provides a (pseudo)code example of changes you would make to the shell to improve its security.