Python Shell

```
import os
class Shell_Prompt():
    def shell_prompt(self):
        return '$'
    def list files(self):
        return [file for file in
os.listdir(os.path.realpath(os.path.join(os.getcwd(),
os.path.dirname(__file__)))) if os.path.isfile(file)]
    def print_files(self):
        for x in self.list files():
            print(x)
    @staticmethod
    def input_error():
        print("Input Error")
        return None
    @staticmethod
    def maths(opp, x, y):
        return {
             'add': lambda: x + y,
             'sub': lambda: x - y,
             'mul': lambda: x * y,
             'div': lambda: x / y,
        }.get(opp)()
Shell = Shell_Prompt()
while True:
    switch = {
        "LIST": lambda: Shell.print_files(),
"ADD": lambda: print(Shell.maths("add", int(command[1]),
int(command[2]))) if len(command) == 3 else Shell.input_error(),
        "SUB": lambda: print(Shell.maths("sub", int(command[1]),
int(command[2]))) if len(command) == 3 else Shell.input_error(),
        "MUL": lambda: print(Shell.maths("mul", int(command[1]),
int(command[2]))) if len(command) == 3 else Shell.input error(),
        "DIV": lambda: print(Shell.maths("div", int(command[1]),
int(command[2]))) if len(command) == 3 else Shell.input error(),
        "EXIT": exit
    command = [x for x in input(Shell.shell prompt).split(' ')]
    switch.get(command[0], Shell.input_error)()
Bandit Report
Test results:
        No issues identified.
Code scanned:
```

```
Total lines of code: 33
       Total lines skipped (#nosec): 0
Run metrics:
       Total issues (by severity):
              Undefined: 0
              Low: 0
              Medium: 0
              High: 0
       Low: 0
              Medium: 0
              High: 0
Files skipped (0):
Potential Security Flaws still exist
```

- Type Conversion by passing in a type the program is not expecting we could cause the
- Command Extension