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CP1404 practical 03

password_check.py

```
"""Module docstring"""
# imports
# CONSTANTS
MINIMUM_LENGTH = 6


def main():
    user_password = get_password()
    print_astericks(user_password)


def print_astericks(user_password):
    for char in user_password:
        print("*", end="")


def get_password():
    user_password = input("Password: ")
    while len(user_password) < MINIMUM_LENGTH:
        print("Password is too short! Try again!")
        user_password = input("Password: ")
    return user_password


main()
```

temperature.py

```
"""
CP1404/CP5632 - Practical
Pseudocode for temperature conversion
"""

MENU = """C - Convert Celsius to Fahrenheit
F - Convert Fahrenheit to Celsius
Q - Quit"""


def main():
    print(MENU)
    choice = input(">>> ").upper()
    while choice != "Q":
        if choice == "C":
            celsius = float(input("Celsius: "))
            fahrenheit = celsius_to_fahrenheit(celsius)
            print("Result: {:.2f} F".format(fahrenheit))
        elif choice == "F":
            fahrenheit = float(input("Fahrenheit: "))
            celsius = fahrenheit_to_celsius(fahrenheit)
            print(f"Result: {celsius:.2f} C")
        else:
            print("Invalid option")
        print(MENU)
        choice = input(">>> ").upper()
    print("Thank you.")


def celsius_to_fahrenheit(celsius: float) -> float:
    return celsius * 9.0 / 5 + 32


def fahrenheit_to_celsius(fahrenheit: float) -> float:
    return (fahrenheit - 32) * 5 / 9


if __name__ == "__main__":
    main()
```

broken_score.py

```
"""
CP1404/CP5632 - Practical
Broken program to determine score status
"""
import random


def main():
    score = float(input("Enter score: "))
    print(get_comment(score))
    random_score = random.uniform(0, 100)
    print(
        f"The comment for random score {random_score:.2f} is
'{get_comment(random_score)}'")


def get_comment(score: float) -> str:
    if score < 0 or score > 100:
        return "Invalid score"
    elif score < 50:
        return "Bad"
    elif score < 90:
        return "Passable"
    else:
        return "Excellent"


if __name__ == "__main__":
    main()
```