



ASSESSMENT 1

PROGRAMMING-

SKILLS-PORTFOLIO

PINGOL, JUSTIN IZEAH RAMOS

Exercise 1.py Exercise 2.py Exercise 3.py Exercise 4.py Exercise 5.py Exercise 6.py Exercise 7.py Exercise 8.py Exercise 9.py Exercises : 

```
1 #EXERCISE 1 - CODING IS COOL
2 word1 = "Coding"
3 word2 = "is"
4 word3 = "Cool"
5
6 print(word1 + " " + word2 + " " + word3)
7
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```

Run Exercise 1   

```
C:\Users\justi\AppData\Local\Programs\Python\Python313\python.exe "C:\Users\justi\PycharmProjects\PythonProject\Exercise 1.py"
Coding is Cool
Process finished with exit code 0
```

The screenshot shows the PyCharm IDE interface. The top navigation bar has tabs for various Python files: pie 2.py, Exercise 1.py, Exercise 2.py (which is currently selected), Exercise 3.py, Exercise 4.py, Exercise 5.py, Exercise 6.py, Exercise 7.py, Exercise 8.py, and Exercise 9.py. A green checkmark icon is positioned at the far right of the tab bar.

The main code editor window displays the content of Exercise 2.py:

```
1 #EXERCISE 2 - SIMPLE SUMS
2 num1 = 8
3 num2 = 10
4 sum_result = num1 + num2
5 print("The sum is", sum_result)
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```

Below the code editor is the run configuration bar, which shows "Run" and "Exercise 2".

The bottom terminal window shows the output of the run command:

```
C:\Users\justi\AppData\Local\Programs\Python\Python313\python.exe "C:\Users\justi\PycharmProjects\PythonProject\Exercise 2.py"
The sum is 18
Process finished with exit code 0
```

```
pie 2.py Exercise 1.py Exercise 2.py Exercise 3.py × Exercise 4.py Exercise 5.py Exercise 6.py Exercise 7.py Exercise 8.py Exercise 9.py :  
1 # EXERCISE 3: BIOGRAPHY  
2 # ---BASIC---  
3 bio = {"name": "Justin Izeah Pingol", "hometown": "Pampanga", "age": 18}  
4 print(f"Name: {bio['name']}\nHometown: {bio['hometown']}\nAge: {bio['age']}")  
5  
6 # ---ADVANCED---  
7 name = input("Enter your full name:") # handles multiple words  
8 hometown = input("Enter your hometown:")  
9 while True:  
10     age_input = input("Enter your age:")  
11     if age_input.isdigit():  
12         age = int(age_input)  
13         break  
14     else:  
15         print("Please enter a valid number for age (e.g., 18).")  
16 bio = {"name": name, "hometown": hometown, "age": age}  
17 print(f"\nName: {bio['name']}\nHometown: {bio['hometown']}\nAge: {bio['age']}")  
18  
19  
20  
Run Exercise 3 × : -  
C:\Users\justi\AppData\Local\Programs\Python\Python313\python.exe "C:\Users\justi\PycharmProjects\PythonProject\Exercise 3.py"  
Name: Justin Izeah Pingol  
Hometown: Pampanga  
Age: 18  
Enter your full name:
```

pie 2.py Exercise 1.py Exercise 2.py Exercise 3.py Exercise 4.py **Exercise 4.py** Exercise 5.py Exercise 6.py Exercise 7.py Exercise 8.py Exercise 9.py

EXERCISE 4: PRIMITIVE QUIZ

```
# --- BASIC ---
answer = input("What is the capital of France? ")
if answer == "Paris":
    print("Correct!")
else:
    print("Wrong! The correct answer is Paris.")

# --- ADVANCED ---
def ask_question(country, correct_capital): 1usage
    # take answer normally and make it lowercase
    answer = input("What is the capital of " + country + "? ").lower()
    if answer == correct_capital.lower():
        print("Correct!")
        return True
    else:
        print("Wrong! The correct answer is " + correct_capital)
        return False

# dictionary of 10 European countries
quiz = {
    "France": "Paris",
    "Germany": "Berlin",
    "Italy": "Rome",
    "Spain": "Madrid",
    "Portugal": "Lisbon",
    "Netherlands": "Amsterdam",
    "Belgium": "Brussels",
    "Austria": "Vienna",
    "Switzerland": "Bern",
    "Sweden": "Stockholm"
}
score = 0

# ask each question
for country, capital in quiz.items():
    if ask_question(country, capital):
        score += 1

print("\nYour final score:", score, "/", len(quiz))
```

Run Exercise 4

What is the capital of France? *Paris*
Correct!
What is the capital of Germany? *Berlin*
Correct!
What is the capital of Italy? *Rome*
Correct!
What is the capital of Spain? *Madrid*
Correct!
What is the capital of Portugal?


```
pie 2.py Exercise 1.py Exercise 2.py Exercise 3.py Exercise 4.py Exercise 5.py Exercise 6.py × Exercise 7.py Exercise 8.py Exercise 9... : 

# EXERCISE 6: BRUTE FORCE ATTACK

# --- BASIC ---
password = "12345" # correct password
# Keep asking until the user enters the right one
while True:
    guess = input("Enter password: ")
    if guess == password:
        print("Access Granted")
        break
    else:
        print("Wrong password, try again.")

# --- ADVANCED ---
password = "12345"
attempts = 0
max_attempts = 5

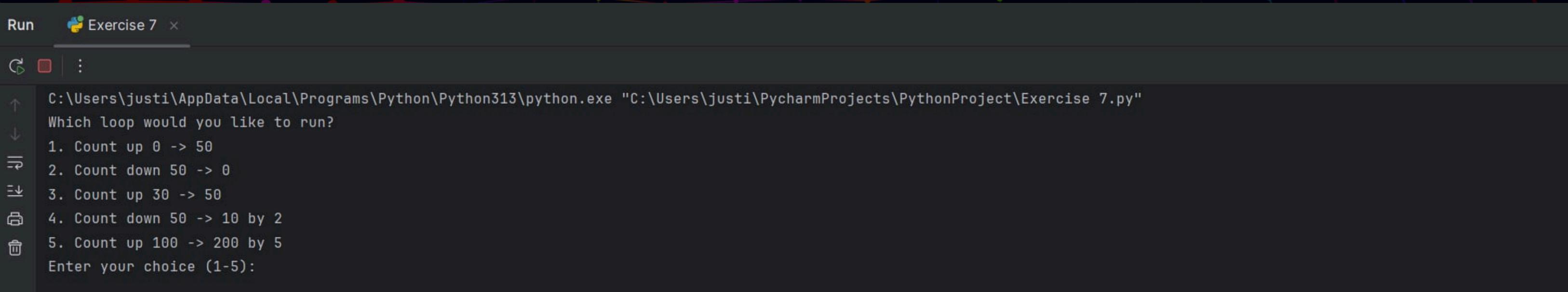
while attempts < max_attempts:
    guess = input("Enter password: ")
    if guess == password:
        print("Access Granted")
        break
    else:
        attempts += 1
        remaining = max_attempts - attempts
        if remaining > 0:
            print(f"Wrong password. {remaining} attempt(s) left.")
        else:
            print("Maximum attempts reached! Authorities alerted 🚨")
```

Run Exercise 6 ×

C:\Users\justi\AppData\Local\Programs\Python\Python313\python.exe "C:\Users\justi\PycharmProjects\PythonProject\Exercise 6.py"

```
Enter password: 1234
Wrong password, try again.
Enter password: 12345
Access Granted
Enter password:
```

```
pie 2.py Exercise 1.py Exercise 2.py Exercise 3.py Exercise 4.py Exercise 5.py Exercise 6.py Exercise 7.py × Exercise 8.py Exercise 9. . .  
1 # EXERCISE 7: SOME COUNTING  
2 print("Which loop would you like to run?")  
3 print("1. Count up 0 -> 50")  
4 print("2. Count down 50 -> 0")  
5 print("3. Count up 30 -> 50")  
6 print("4. Count down 50 -> 10 by 2")  
7 print("5. Count up 100 -> 200 by 5")  
8  
9 choice = int(input("Enter your choice (1-5): "))  
10  
11 if choice == 1:  
12     for i in range(0, 51):  
13         print(i)  
14 elif choice == 2:  
15     for i in range(50, -1, -1):  
16         print(i)  
17 elif choice == 3:  
18     for i in range(30, 51):  
19         print(i)  
20 elif choice == 4:  
21     for i in range(50, 9, -2):  
22         print(i)  
23 elif choice == 5:  
24     for i in range(100, 201, 5):  
25         print(i)  
26 else:  
27     print("Invalid choice! Please enter a number from 1 to 5.")
```



Exercise 2.py Exercise 1.py Exercise 2.py Exercise 3.py Exercise 4.py Exercise 5.py Exercise 6.py Exercise 7.py Exercise 8.py X Exercise 9.py

```
1 #EXERCISE 8 - SIMPLE SEARCH
2 names = ["Jake", "Zac", "Ian", "Ron", "Sam", "Dave"]
3 search_name = input ("Enter a name to search: ")
4 if search_name in names:
5     print(search_name, "found in the list!")
6 else:
7     print(search_name, "not found.")
8
9
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```

Run Exercise 8

```
C:\Users\justi\AppData\Local\Programs\Python\Python313\python.exe "C:\Users\justi\PycharmProjects\PythonProject\Exercise 8.py"
Enter a name to search: Jake
Jake found in the list!

Process finished with exit code 0
```

Exercise 2.py Exercise 1.py Exercise 2.py Exercise 3.py Exercise 4.py Exercise 5.py Exercise 6.py Exercise 7.py Exercise 8.py Exercise 9.py

```
1 #EXERCISE 9 - HELLO
2 def hello(): 1 usage
3     print("Hello")
4 def main(): 1 usage
5     hello()
6 ▶ if __name__ == "__main__":
7     main()
8
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```

Run Exercise 9

```
C:\Users\justi\AppData\Local\Programs\Python\Python313\python.exe "C:\Users\justi\PycharmProjects\PythonProject\Exercise 9.py"
Hello
Process finished with exit code 0
```

```
e 1.py Exercise 2.py Exercise 3.py Exercise 4.py Exercise 5.py Exercise 6.py Exercise 7.py Exercise 8.py Exercise 9.py Exercise 10.py X V :
```

```
1 #EXERCISE 10 - IS IT EVEN?
2 def check_even_odd(number): 1 usage
3     if number % 2 == 0:
4         return f"{number} is even,"
5     else:
6         return f"{number} is odd,"
7 def main(): 1 usage
8     num = int(input("Enter a number: "))
9     result = check_even_odd(num)
10    print(result)
11 ▶ if __name__ == "__main__":
12     main()
13
14
15
16
17
18
19
20
```

Run Exercise 10 X

```
C:\Users\justi\AppData\Local\Programs\Python\Python313\python.exe "C:\Users\justi\PycharmProjects\PythonProject\Exercise 10.py"
Enter a number: 8
8 is even,
Process finished with exit code 0
```



THANK
YOU!