

MIS312 Assignment 5 — Reading Python Code: Part 2

Book Alignment: Chapter 5

Primary Goal: Understand branching logic and function behavior on different inputs

Environment: JupyterLab (`.ipynb`)

Submission: OneNote Artifact (PDF)

Learning Objectives

- Explain `if/elif/else`
 - Predict outcomes for multiple inputs
 - Explain why functions return different results
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Student Tasks

Task 1 — Conditionals (predict output)

Create `assignment05_reading2.ipynb` and paste:

```
temperature = 72
if temperature > 80:
    print("Hot")
elif temperature >= 60:
    print("Comfortable")
else:
    print("Cold")
```

Predict then run. Change temperature to **55** and **85**; run and record output.

Task 2 — Read a function and explain it

Paste:

```
def grade_letter(score):
    if score >= 90:
        return "A"
    elif score >= 80:
        return "B"
    elif score >= 70:
        return "C"
    elif score >= 60:
        return "D"
    else:
        return "F"

print(grade_letter(88))
print(grade_letter(59))
```

Explain why those results occur.

Task 3 — AI review (required)

Ask:

“What are two common mistakes beginners make with if/elif/else code?”

Write the suggestions and how you will avoid them.

OneNote Artifact Requirements

- Outputs for all temperatures (screenshots)
- Function snippet + your explanations
- AI prompt + summary
- Reflection: Which part of conditionals is still confusing?