

# 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)

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## 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.

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### **OneNote Artifact Requirements**

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