def calculate\_phq9\_outcome(baseline\_score, final\_score):

score\_difference = final\_score - baseline\_score

if final\_score <= 4:

return "Remission"

elif score\_difference >= 0.5 \* baseline\_score:

return "Response"

else:

return "No Response"

def determine\_phq9\_severity(score):

severity\_table = [

{"min\_score": 0, "max\_score": 4, "severity": "Minimal"},

{"min\_score": 5, "max\_score": 9, "severity": "Mild"},

{"min\_score": 10, "max\_score": 14, "severity": "Moderate"},

{"min\_score": 15, "max\_score": 19, "severity": "Moderately Severe"},

{"min\_score": 20, "max\_score": 27, "severity": "Severe"}

]

for entry in severity\_table:

if entry["min\_score"] <= score <= entry["max\_score"]:

return entry["severity"]

return "Invalid Score"

# Example usage

phq9\_score = 12

severity = determine\_phq9\_severity(phq9\_score)

print(f"PHQ-9 Severity: {severity}")