

Pseudocode Logic Flows

This document outlines two separate algorithms written in high-level pseudocode: a Weather and Mood Advisor and a Student Grade Evaluator.

1. Weather & Mood Advisor (Temperature-Based Recommendation System)

This algorithm takes user input for name, city, and current temperature, then provides personalized advice and mood based on various temperature ranges (in Celsius).

START

PRINT "Welcome to the Weather & Mood Advisor!"

INPUT user_name

INPUT city_name

INPUT temp

PRINT "Hi " + user_name + "! Let's see what the weather feels like in " + city_name + "."

IF temp > 40 THEN

 PRINT "🔥 It's extremely hot! Stay indoors and drink lots of water."

ELIF temp > 30 THEN

 PRINT "It's hot! Drink water and wear light clothes."

ELIF temp >= 25 THEN

 PRINT "Warm and sunny — perfect for outdoor fun!"

ELIF temp >= 20 THEN

 PRINT "Nice weather! Maybe go for a walk."

ELIF temp >= 15 THEN

 PRINT "It's pleasant but slightly cool. A light jacket will do."

ELIF temp >= 10 THEN

 PRINT "It's a bit cold, wear a warm jacket."

ELIF temp >= 5 THEN

 PRINT "🥶 It's chilly! Better stay warm inside."

ELIF temp >= 0 THEN

 PRINT "❄️ Freezing weather! Time for hot chocolate!"

ELSE

 PRINT "🧊 It's below freezing! Bundle up and stay cozy!"

END IF

PRINT "Have a great day, " + user_name + "! Stay safe in " + city_name + "!"

END

2. Smart Student Grade Evaluator (Conditional Grading System)

This algorithm evaluates a student's numerical score in a specific subject and assigns a corresponding letter grade and motivational message.

START

PRINT "Welcome to the Smart Student Grade Evaluator!"

INPUT student_name

INPUT subject_name

INPUT score

PRINT "Evaluating grade for " + student_name + " in " + subject_name + "..."

IF score > 100 THEN

 PRINT "Invalid score! Please enter a value between 0 and 100."

ELIF score >= 95 THEN

 PRINT "Grade: A+"

 PRINT "Excellent work, " + student_name + "! You're a star in " + subject_name + "!"

ELIF score >= 90 THEN

 PRINT "Grade: A"

 PRINT "Great job! Keep shining bright!"

ELIF score >= 85 THEN

 PRINT "Grade: B+"

 PRINT "Good work, " + student_name + "! A little more effort will make it perfect."

ELIF score >= 80 THEN

 PRINT "Grade: B"

 PRINT "Nice performance! Keep improving."

ELIF score >= 70 THEN

 PRINT "Grade: C"

 PRINT "You passed, but you can do even better next time!"

ELIF score >= 60 THEN

 PRINT "Grade: D"

 PRINT "You need to study a bit more. Don't give up!"

ELSE

 PRINT "Grade: F"

 PRINT "Needs improvement, " + student_name + ". Ask for help and keep trying!"

END IF

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PRINT "Evaluation complete for " + student_name + "."  
PRINT "-----"  
PRINT "Thank you for using Smart Student Grade Evaluator!"  
END
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