

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!"
ENDIF

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

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

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