

IPO Diagram

Input	Process	Output
<ul style="list-style-type: none">• Monthly budget (dollar amount)• Individual expenses (multiple dollar amounts)• Loop termination signal (entering 0)	<ul style="list-style-type: none">• Input validation (checking for negative values)• Running total calculation of expenses• Budget vs expenses comparison• Error handling with try/except blocks	<ul style="list-style-type: none">• Formatted display of monthly budget• Formatted display of total expenses• Budget status message (over, under, or exactly on budget)• Error messages for invalid inputs

Input	Process	Output
<ul style="list-style-type: none">• Constant rising rate (1.8 millimeters per year)• Year range (1 to 25 years)	<ul style="list-style-type: none">• Loop through years 1 to 25• Calculate cumulative rise for each year ($\text{rate} \times \text{year}$)• Format calculations to 2 decimal places• Generate tabular display format	<ul style="list-style-type: none">• Table header ("Year" and "Rise (in millimeters)")• Separator line (dashes)• 25 rows of data showing:<ul style="list-style-type: none">○ Year number (1-25)○ Cumulative ocean rise in millimeters for that year formatted to 2 decimal places