# Module 10 IPO Charts

## M10P1 – Sales Forecast

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| --- | --- | --- |
| Input | Processing | Output |
| Input | Last name, month, sales amount, yes/no response |  |
| Processing | Determine forecast percent based on month (0.10–0.25). Compute next month’s sales = sales × (1 + forecast percent). Repeat while user says 'Yes'. |  |
| Output | Display next month’s forecasted sales amount. |  |

## M10P2 – Room Paint Calculation (with Bonus)

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| Input | Processing | Output |
| Input | Length, width, height, yes/no response |  |
| Processing | Compute wall area = 2 × length × height + 2 × width × height. Compute gallons = wall area / 50. Bonus: compute ceiling/floor area = length × width; compute gallons for ceiling/floor = area / 50. |  |
| Output | Display wall gallons, and bonus ceiling/floor gallons. |  |

## M10P3 – Car Price Calculation

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| --- | --- | --- |
| Input | Processing | Output |
| Input | Make, model, electric vehicle code (Y/N), MSRP, yes/no response |  |
| Processing | Determine discount percent based on car type or EV. Compute discounted MSRP, then add 7% tax. Sum MSRP and final sale price for all cars. |  |
| Output | Display total sale price for each car and grand totals. |  |

## M10P4 – Train Ticket Price

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| --- | --- | --- |
| Input | Processing | Output |
| Input | Last name, miles from downtown Chicago, yes/no response |  |
| Processing | Determine ticket price based on miles range (>=30=$12, 20–29=$10, 10–19=$8, <10=$5). Sum ticket prices for all entries. |  |
| Output | Display ticket price and total of all tickets. |  |

## M10P5 – Home Assessment Value

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| --- | --- | --- |
| Input | Processing | Output |
| Input | County, market value, yes/no response |  |
| Processing | Determine assessment percent by county. Compute assessed value = market value × assessment percent. Sum market and assessed values. |  |
| Output | Display assessed value and totals for all homes. |  |