Task A: Basic Item Search + Price Constraint :

User Query : Find a floral skirt under $40 in size S. Is it in stock, and can I apply a discount code 'SAVE10'?

Reasoning Traces :

 - **Thought:** I will search for floral skirts in size S and filter the results by price to ensure they are under $40. After that, I will check if they are in stock and if the discount code 'SAVE10' can be applied.

- **Action:** necessary tools = {search_products : True, price_filter : True, check_discount : True} | params = {query:"floral skirt", platform:"all", size:"S", max_price:40, coupon_code:"SAVE10"}

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After Tools Mapped
Tools Need to call = ['search_products', 'check_discount', 'price_filter']
Parameters =   {'query': 'floral skirt', 'platform': 'all', 'size': 'S', 'max_price': 40, 'coupon_code': 'SAVE10'}
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Task B: Shipping Deadline

User Query: "I need white sneakers (size 8) for under $70 that can arrive by Friday."

Reasoning Traces :

- **Thought:** I will search for white sneakers in size 8, filter the results to ensure they are under $70, and check the estimated shipping time to confirm they can arrive by Friday.

- **Action:** necessary tools = {search_products : True, price_filter : True, check_shipping_time : True} | params = {query:"white sneakers", size:8, platform:"all", max_price:70, deadline:"Friday"}

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After Tools Mapped
Tools Need to call = ['search_products', 'price_filter', 'check_shipping_time']
Parameters = {'query': 'white sneakers', 'size': 8, 'platform': 'all', 'max_price': 70, 'deadline': 'Friday'}
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Task C: Competitor Price Comparison

User Query: "I found a 'casual denim jacket' at $80 on SiteA. Any better deals?"

Reasoning Traces :

- **Thought:** I will search for casual denim jackets on Amazon and compare prices to see if there are better deals available than the $80 I found on SiteA.

- **Action:** necessary tools = {search_products : True, price_comparison : True} | params = {query:"casual denim jacket", platform:"amazon", max_price:80}

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After Tools Mapped

Tools Need to call = ['search_products', 'price_comparison']

Parameters = {'query': 'casual denim jacket', 'platform': 'amazon', 'max_price': 80}

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Task D: Returns & Policies

User Query: "I want to buy a cocktail dress from amazon, but only if returns are hassle-free. Do they accept returns?"

Reasoning Traces :

  - **Thought:** I will search for casual denim jackets on Amazon and compare prices to see if there are better deals available than the $80 I found on Myntra.

- **Action:** necessary tools = {search_products : True, price_comparison : True} | params = {query:"casual denim jacket", platform:"amazon", max_price:80}

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Tools Need to call = ['search_products', 'price_comparison']

Parameters =   {'query': 'casual denim jacket', 'platform': 'amazon', 'max_price': 80}