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Dashboard / Primer 2.0 - App Dev / Stage 1 / Software Fundamentals / Arrays

Assignment: A grand discount sale

A grand discount sale is announced by 3 biggest sellers - Flipkart, Amazon and Snapdeal for the following products - mobile, laptop, speakers, power bank and USB.

Ms. Grace wants to identify which seller supplies each product for the least price. For example, if a laptop is sold for 45000, 42000, and 46000 by the three vendors respectively, then she must be able to identify that the laptop from Amazon is the least priced (Rs.420000).

 This has to be done for all the 5 products. Help Ms.Grace with a pseudocode that displays the least price of each product along with the Seller name.

The flow has to terminate abruptly displaying 'Invalid Input', if a price entered is negative.

Assume row represent products and column will be for sellers

Sample Input :
45000
44000
45999
72000
75000
74999
5000
4999

![robot icon] ∧

5999

3000

2700

3000

1000

1200

800

Sample output :

Buy mobile from Amazon

Buy laptop from Flipkart

Buy speakers from Amazon

Buy power bank from Amazon

Buy usb from Snapdeal

Explanation :

As per the given input it represents the below data

Product / Seller	Flipkart	Amazon	Snapdeal
mobile	45000	44000	45999
laptop	72000	75000	74999
speakers	5000	4999	5999
power bank	3000	2700	3000
usb	1000	1200	800

So as per the data the product name and the seller with minimum price are taken and displayed as output.

Submission status

Submission status	Submitted for grading
Grading status	Not graded
Last modified	Monday, 15 January 2024, 7:46 PM

Online text

BEGIN

 # Initialize variables to store the minimum price and corresponding seller for each product

DECLARE

min_price_mobile = -1

min_price_laptop = -1

min_price_speakers = -1

min_price_power_bank = -1

min_price_usb = -1

 # Input prices for each product from Flipkart, Amazon, and Snapdeal

DECLARE AND READ

input_flipkart_mobile

input_amazon_mobile

input_snapdeal_mobile

input_flipkart_laptop

input_amazon_laptop

input_snapdeal_laptop

input_flipkart_speakers

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input_amazon_speakers

input_snapdeal_speakers

input_flipkart_power_bank

input_amazon_power_bank

input_snapdeal_power_bank

input_flipkart_usb

input_amazon_usb

input_snapdeal_usb

# Check for negative inputs and terminate if found

if (input_flipkart_mobile < 0) or (input_amazon_mobile < 0) or (input_snapdeal_mobile < 0) or

   (input_flipkart_laptop < 0) or (input_amazon_laptop < 0) or (input_snapdeal_laptop < 0) or

   (input_flipkart_speakers < 0) or (input_amazon_speakers < 0) or (input_snapdeal_speakers < 0) or

   (input_flipkart_power_bank < 0) or (input_amazon_power_bank < 0) or (input_snapdeal_power_bank < 0) or

   (input_flipkart_usb < 0) or (input_amazon_usb < 0) or (input_snapdeal_usb < 0):

   print("Invalid Input")

else:

   # Find the minimum price and corresponding seller for each product

   min_price_mobile = min(input_flipkart_mobile, input_amazon_mobile, input_snapdeal_mobile)

   min_price_laptop = min(input_flipkart_laptop, input_amazon_laptop, input_snapdeal_laptop)
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min_price_speakers = min(input_flipkart_speakers, input_amazon_speakers, input_snapdeal_speakers)

min_price_power_bank = min(input_flipkart_power_bank, input_amazon_power_bank,
input_snapdeal_power_bank)

min_price_usb = min(input_flipkart_usb, input_amazon_usb, input_snapdeal_usb)

# Display the results

print("Buy mobile from", "Flipkart" if min_price_mobile == input_flipkart_mobile else "Amazon" if
min_price_mobile == input_amazon_mobile else "Snapdeal")

print("Buy laptop from", "Flipkart" if min_price_laptop == input_flipkart_laptop else "Amazon" if
min_price_laptop == input_amazon_laptop else "Snapdeal")

print("Buy speakers from", "Flipkart" if min_price_speakers == input_flipkart_speakers else "Amazon" if
min_price_speakers == input_amazon_speakers else "Snapdeal")

print("Buy power bank from", "Flipkart" if min_price_power_bank == input_flipkart_power_bank else "Amazon"
if min_price_power_bank == input_amazon_power_bank else "Snapdeal")

print("Buy usb from", "Flipkart" if min_price_usb == input_flipkart_usb else "Amazon" if min_price_usb ==
input_amazon_usb else "Snapdeal")

END
```

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◄ **Total amount of money to buy fruits**

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Find the order ►

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