

Write a Python program that:

1. Reads a text file containing a list of product IDs signifying product sales transactions.
2. Uses that data to generate a CSV file containing the following data points associated with each transaction:
 - a. A sequential ID indicating the order of the individual transaction within the file.
 - b. The date on which the file was generated.
 - c. The product ID
 - d. The product name
 - e. The product unit price

The output of the program should look something like the following:

current_date	sale_id	product_id	name	price
5/9/2023	1	P005	Mobile Phone Case	15
5/9/2023	2	P001	Wireless Headphones	100
5/9/2023	3	P001	Wireless Headphones	100
5/9/2023	4	P006	Wireless Mouse	30
5/9/2023	5	P006	Wireless Mouse	30
5/9/2023	6	P003	Bluetooth Speaker	50
5/9/2023	7	P004	USB Flash Drive	20

- The raw product sales transactions can be found in the “product_sales.txt” file.
- To help you get started, here’s a mapping between the product IDs in product_sales.txt and their respective names and prices:

Product ID	Product Name	Unit Price
P001	Wireless Headphones	100
P002	Laptop Backpack	60
P003	Bluetooth Speaker	50
P004	USB Flash Drive	20
P005	Mobile Phone Case	15
P006	Wireless Mouse	30
P007	Laptop Stand	40
P008	HDMI Cable	15
P009	Smartphone	600
P010	External Hard Drive	100