NATIONAL UNIVERSITY OF MODERN LANGUAGES

ISLAMABAD

Artificial Neural Network

Lab Task: 07

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Lab Task

```
import pandas as pd

data = pd.read_csv('sales_data.csv')
data.head()
```

	store_id	customer_id	product_id	product_category	date	amount	single_price	transaction_id
0	Store 01	Customer 1508	53642	Toys	4/1/2007 8:09	3	90.246230	1
1	Store 15	Customer 169	90945	Movies	2/15/2005 10:47	2	60.586312	2
2	Store 12	Customer 124	18548	Movies	9/27/2007 5:38	5	96.612695	3
3	Store 05	Customer 1988	85359	Books	5/7/2005 13:19	5	16.962671	4
4	Store 01	Customer 475	80069	Clothing	1/6/2008 17:36	5	65.215310	5

```
# Calculate Pearson correlation of attributes in sales data

corr, _ = pearsonr(data['amount'], data['single_price'])
print('Pearsons correlation: %.3f' % corr)
```

```
Pearsons correlation: -0.125
```