Introduction to AI Programming

Python Introduction, Installation

COURSE TITLE

Introduction to AI Programming

Assignment No:3

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Question:

1. Load both CSVs.
2. Store loads and prices into lists.
3. Write a function to compute.
   3.1. Hourly bill
   3.2. Total bill

```python
In [ ]: import csv              #importing csv module
        load=[]
        with open(r"D:\3rd semester\introduction to AI\Assignments and OEL\Assignment 3
            reader1=csv.reader(f1)
            for index,r1 in enumerate(reader1):     #2.storing loads in list by for loop
                if index==0:      #skips the 1st row
                  continue
                load.append(float(r1[1]))
        load
```

```
Out[ ]: [200.0, 300.0, 500.0, 700.0, 600.0, 400.0, 800.0, 700.0, 600.0, 500.0]
```

In [ ]:
```python
price=[]
with open('Assignment 3 price.csv') as f2:              #1.reading given price
    reader2=csv.reader(f2)
    for index,r2 in enumerate(reader2):                 #2.storing price in list by
        if index==0:        #skips the 1st row
         continue
        price.append(float(r2[1]))
price
```

Out[ ]: [40.0, 40.0, 40.0, 40.0, 40.0, 40.0, 40.0, 40.0, 40.0, 40.0]

In [ ]:
```python
unit=[x/1000 for x in load]         #converting to kwh 1kwh=1unit for bill calc
unit
```

Out[ ]: [0.2, 0.3, 0.5, 0.7, 0.6, 0.4, 0.8, 0.7, 0.6, 0.5]

In [ ]:
```python
def hourly_bill(unit,price):                #3.creating function to calculate bill.
    bill=[]
    for k in range(len(unit)):
        bill.append(unit[k]*price[k])  #3.1 calculating hourly bill
    return bill
bill=hourly_bill(unit,price)                #calling function and providing with pr
for i,b in enumerate(bill):
    print(f"Hour no: {i+1} bill is: {b}")
print("\n Total bill is:",sum(bill))        #3.2 calculating and printing total
```

```
Hour no: 1 bill is: 8.0
Hour no: 2 bill is: 12.0
Hour no: 3 bill is: 20.0
Hour no: 4 bill is: 28.0
Hour no: 5 bill is: 24.0
Hour no: 6 bill is: 16.0
Hour no: 7 bill is: 32.0
Hour no: 8 bill is: 28.0
Hour no: 9 bill is: 24.0
Hour no: 10 bill is: 20.0

 Total bill is: 212.0
```