ASSIGNMENT-1

BATCH-B5-5M1E(AI)

1. string = "Hi there Sam ";
print (string split())
output=['Hi', 'there', 'sam']
2.plant ="Earth"
diameter= 12742
print('The diameter of {} is {} kilometer'. format (plan ef, diameter));
output:the dimeter of the earth is 12742 kilometer
3.d = {'k',[1,2,3,{'trichy'['oh','man','inception', 'target'[1,2,3,'hello']}]}]}
print(d['k1'][3]["trichy"][3]['target'][3])
output=hello
4a).import numpy as np
array=np.zeros(10)
print("An array of 10zero")
print(array)

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output= [0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
4b) import numpy as np
array=np.five(10)*5
print(" An array of 10 five: ")
print(array)
output = [5. 5. .5 .5 .5 .5 .5 .5 .5 .5 ]
5)import numpy as np
array=np.arrange(20,35,2)
print("Array of all the even integer from 20 to 35")
print(array)
output= 20,22,24,25,26,28,30,32,34.
6) import numpy as np
x = np.arrange (0,9)reshape(3,3)
print(x)
output [ [0 ,1 ,2]
[3,4,5]
[8, 7, 6]
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7) import numpy as np
a = np. array ([1,2,3])
b = np. array ([4,5,6])
c = np. concatenate((a,b,),1)
print(c)
output=[[1,2,3]
[4,5,6]]
8)import pandas as pd
data=['Name'['tom', 'nick', 'krish', 'jack'],
Age:[20,21,19,18]
df=pd.Dataframe(data)
df
output=
Name Age
0 Tom 20
1 nick 21
2 krish 19
3 Jack 18
9) from datetime import timedelta, date
def daterange (date1,date2);
for n if in_ range (int((date2-date).days)+1`):
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yield date1+ timedelta(n)
start_dt=date(2023,1,1)
end_dt=date=date(2023,10,2)
for dt in daterange(start_dt,end_dt);
print9dt.strftime("yy-%m-%d"))
output=1st jan 2023
10th feb 2023
10)import pandas as pd
import numpy as np
list=[[1,'aaa',22],[2,'bbb',25],[3,'ccc',24]]
data=pd.dataframe(li)
print(data)
output=1 aaa 21
2 bbb 2.5
3 ccc 24
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