Assignment -1

Assignment Date	19 September 2022	
Student Name	Miss Madhumitha N	
Student Roll Number	620119106049	
Maximum Marks	2 Marks	

Question-1:

1.Split This String:

S="Hi there sam!"
Ans: S.split()
 print(S)
Output:

['Hi', 'there', 'sam!']



Question-2:

2. Use format() to print the following String:

print('The diameter of the {} is {}
kilometers'.format('Earth',
'12742'))



Question-3

3. in This Dictionary grab the word "hello"

d={'k1':[1,2,3,{'tricky':['oh','man','Inception',{'target':[1,2,3,'hello']}]}]}

Ans:

Question-4

4.1. Create an array of 10 Zeros?

import numpy as np
a=np.zeros(10)
print(a)

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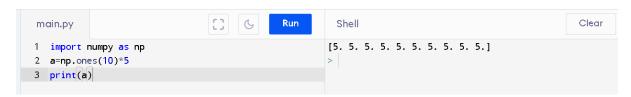
4.2. Create an array of 10 fives?

import numpy as np
a=np.ones(10)*5
print(a)

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Question-5

5. Create an Array of All the Even Integers from 20 to 35?

import numpy as np
array=np.arange(20,31,2)
print("array of even integers from 20 to 30")
print(array)

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```
main.py

1 import numpy as np
2 array=np.arange(20,31,2)
3 print("array of even integers from 20 to 30")
4 print(array)

Shell

array of even integers from 20 to 30

[20 22 24 26 28 30]

print(array)
```

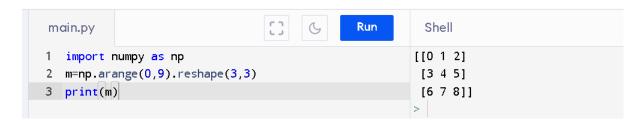
Question-6

6.Create a 3X3 matrix with values ranging from 0to8

```
import numpy as np
m=np.arange(0,9).reshape(3,3)
print(m)
```

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Question-7

Concatenate a and b

```
a=np.array([1,2,3]),b=np.array([4,5])
import numpy as np
```

a=np.array([1,2,3]) b=np.array([4,5,6])

con=np.concatenate((a,b),axis= 0)

print(con)

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Question-8

8. Create a Dataframe with 3 rows and 2 coloumns import pandas as pd?

import pandas as pd

```
lst=[[1,'aaa',22],[2,'bbb',25],[3,'ccc',24]]
```

df = pd. DataFrame(Ist, columns = ['Sno', 'Alphabets', 'val'])

print(df)



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```
Run
main.py
                                       C
                                                           Shell
   import pandas as pd
                                                         Sno Alphabets val
2 lst=[[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
                                                         0
                                                            1
                                                                            22
3 df=pd.DataFrame(lst,columns=['Sno','Alphabets'
                                                         1
                                                              2
                                                                      bbb
                                                                            25
       ,'val'])
                                                         2
                                                              3
                                                                      ccc
                                                                            24
4 print(df)
```

Question-9

9. Generate the series of Dates form 1st Jan, 2023 to 10th Feb, 2023?

```
import datetime
import pandas as pd
test_date = datetime.datetime.strptime("01-01-2023", "%d-%m-%Y")
K = 10
date_generated = pd.date_range(test_date, periods=K)
print(date_generated.strftime("%d-%m-%Y"))
```

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```
Run
                                                       Shell
main.py
1 import datetime
                                                      Sno Alphabets val
2 import pandas as pd
                                                                        22
                                                                  aaa
3 test_date = datetime.datetime.strptime("01-01-2023"
                                                                        25
                                                                  bbb
                                                                  ccc 24
4 K = 10
5 date_generated = pd.date_range(test_date, periods=K
      )
6 print(date_generated.strftime("%d-%m-%Y"))
```

Question-10

10.Create 2D list to DataFrame

```
import pandas as pd
lst = [[1,'aaa', 22], [2,'bbb', 25], [3,'ccc', 24]]
# creating df object with columns specified
df = pd.DataFrame(lst, columns =['sno','name', 'number'])
print(df )
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                                                                               Interactive Pyth
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                               [] 6
  main.py
                                                   sno name number
                                                                  22
    import pandas as pd
                                                       1 aaa
  3 lst = [[1,'aaa', 22], [2,'bbb', 25], [3,'ccc', 24]]
                                                       2 bbb
                                                                  25
                                                       3 ссс
  4 # creating df object with columns specified
  5 df = pd.DataFrame(lst, columns =['sno', 'name',
         'number'])
 6 print(df)
```