

Assignment -1

Assignment Date	19 September 2022
Student Name	Miss Arunadevi A
Student Roll Number	620119106008
Maximum Marks	2 Marks

Question-1

1 Split This String

S="Hi there sam!"

Ans: S.split()

print(S)

Output :

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

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```
main.py  Run Shell
1  que="Hi there sam!"
2  ans=que.split()
3  print(ans)
```

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

Question-2

2 Use format() to print the following String

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

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```
main.py  Run Shell  Clear
1  print('The diameter of the {} is {} kilometers'.format('Earth', '12742'))
```

The diameter of the Earth is 12742 kilometers

Question-3

3. in This Dictionary grab the word "hello"

```
d={'k1':[123,{'tricky':{'ch','nan','noption',{'target':[123,'hello']}}]}
```

Ans:

Question-4

41>Create an array of 10 Zeros?

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



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main.py	Run	Shell	Clear
<pre>1 import numpy as np 2 a=np.zeros(10) 3 print(a)</pre>		<pre>[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.] > </pre>	

42>Create an array of 10 fives?

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



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main.py	Run	Shell	Clear
<pre>1 import numpy as np 2 a=np.ones(10)*5 3 print(a)</pre>		<pre>[5. 5. 5. 5. 5. 5. 5. 5. 5. 5.] > </pre>	

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)
```

main.py	Shell
<pre>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)</pre>	<pre>array of even integers from 20 to 30 [20 22 24 26 28 30] > </pre>

Question-6

6.Create a 3X3 matrix with values ranging from 0 to 8

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

main.py	Shell
<pre>1 import numpy as np 2 m=np.arange(0,9).reshape(3,3) 3 print(m)</pre>	<pre>[[0 1 2] [3 4 5] [6 7 8]] > </pre>

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)
```

main.py	Shell
<pre>1 import numpy as np 2 a=np.array([1,2,3]) 3 b=np.array([4,5,6]) 4 con=np.concatenate((a,b),axis= 0) 5 print(con)</pre>	<pre>[1 2 3 4 5 6] > </pre>

Question-8

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

```
import pandas as pd
lst=[[1,'aaa',22],[2,'bbb',25],[3,'ccc',24]]
df=pd.DataFrame(lst,columns=['Sno','Alphabets','val'])
```

print(df)



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

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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main.py	Run	Shell
<pre>1 import datetime 2 import pandas as pd 3 test_date = datetime.datetime.strptime("01-01-2023", "%d-%m-%Y") 4 K = 10 5 date_generated = pd.date_range(test_date, periods=K) 6 print(date_generated.strftime("%d-%m-%Y"))</pre>		<pre>Sno Alphabets val 0 1 aaa 22 1 2 bbb 25 2 3 ccc 24 ></pre>

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)
```

main.py

Run

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

Shell

```
sno name  number
0    1   aaa     22
1    2   bbb     25
2    3   ccc     24
> |
```