1.Split this string:

```
S = “Hi there sam!”
Words = s.split(‘,’)
Print(words)
```

2.Use. format() to print the following

```
My string = “ The diameter of the {} is {} kilometer”
Print(my_string.format(“earth”,”12742”))
```

3.In this nest dictionary grab the word “hello”

```
d={‘k1’:[1,2,3,{‘tricky’:[‘oh’,’man’,’inception’,{‘target’:[1,2,3.’h]
elloprint(d[‘hello’])
```

4.1Create an array 10 zeros?

```
arr1 = []
for I in range(0,10):
    arr1.append(0)
print(arr1)
```

4.2 create an of 10 fives?

```
Arr1 = []
For I in range(0,10):
    Arr1.append(5)
Print(arr1)
```

5.Create an array of all the even integers from 20 to 35?

```
Start = 20
    End = 35
For num in range(start, end + 1)
    If num % 2 == 0:
        Print(num, end = “ “)
```

6. Create a 3x3 matrix with values ranging from 0 to 8?

```
Import numpy as np
X = np.arrange(0,8).reshape(3,3)
Print(x)
```

7. Concatenate a and b

```
Import numpy as np
a = np.array([1,2,3])
b = np.array([4,5,6])
num = np.concatenate((a,b), axis = 0)
print (num)
```

8. Create the dataframe with 3 rows and 2 columns

```
Import pandas as pd
Data = [[‘tom ‘,10], [‘nick’ , ’20’], [‘carry’ , ’30’]]
df = pd.Dataframe(data, columns=[‘name’ , ’age’])
Df
```

9. Generate the series of date from 1st jan,2023 to 10th feb 2023?

```
Import datetime
Import pandas as pd
Test-date = datetime.datetime.striptime(“01-01-2023” , “10- 02-2023 “)
Date- generated = pd.date-range(test-date, periods=k)
Print(date-generated.strftime(“%d-%m-5y))
```

10. Create 2D list to dataframe

```
Import pandas as pd
Lst = [[1,’aaa’,22], [2,’bbb’,25],[3,’ccc’,24]
Df = pd.Datagframe(1 st, columans =[‘tag’ , ‘numbers’]
Print(df)
```