```
1)
import pandas as pd
structured_data=pd.DataFrame({
  'Name':['Alice','Bob','Charlie'],
  'Age':[25,30,35]
})
print("Structured Data:\n",structured_data)
Structured Data:
         Name Age
       Alice
                 25
1
         Bob
                 30
2 Charlie 35
2)
import pandas as pd
semi_structured_data="This is an example of unstructured data.It can be a place of test,an image or
a video file"
print("\nUnsubscribe Data:\n",unstructured_data)
semi_structured_data={'ID':1,'Name':'Alice','Attributes':{'Height':165,'Weight':68}}
print("\nsemi structured data\n",semi_structured_data)
Unsubscribe Data:
 This is an example of unstructured data. It can be a place of test, an image or a video file
semi structured data
 {'ID': 1, 'Name': 'Alice', 'Attributes': {'Height': 165, 'Weight': 68}}
3)
import pandas as pd
structure_data =pd.DataFrame({
  'name':['manu','manoj','ikram'],
  'age':[18,19,29],
  'id':[179,178,188]
})
print(structure_data)
```

```
id
      name age
 0
               18 179
     manu
 1 manoj
               19 178
               29 188
     ikram
4)
import pandas as pd
data='{"name":"manu","id":179,"age":18}'
print(data)
 {"name": "manu", "id": 179, "age": 18}
5)
print("this is unstructured data")
this is unstructured data
6)
from cryptography.fernet import Fernet
key=Fernet.generate_key()
f=Fernet(key)
token=f.encrypt(b"manu")
token
b'...'
f.decrypt(token)
b'manu'
key=Fernet.generate_key()
cipher_suite=Fernet(key)
plain_text=b"manu"
cipher_text=cipher_suite.encrypt(plain_text)
decrypted_text=cipher_suite.decrypt(cipher_text)
print("original data",plain_text)
print("encrypted data",cipher_text)
print("decrypted data",decrypted_text)
```

original data b'manu' encrypted data b'gAAAABmtEQLJgZEssO08yAfRbtU2_a0_4JvjUY8maz2GcFqfQLsxc4KDEO1RGwUaSicLiDEnLDMby2MmkIOMibKVF18kPs43g==' decrypted data b'manu' $(A_{1}^{2})^{2}$