#### **AMINA QADEER**

### **CE-42-A**

# <u>3596</u>07

## **DATABASE LAB 02**

```
TASK:
CODE:
`# import required module
from cryptography.fernet import Fernet
# generating a key and saving it
# key generation
key = Fernet.generate_key()
# storing the key in a file
with open("file-key.key", "wb") as file_key:
  file_key.write(key)
# Above code will generate a file with the name file-key.key.
# The file will contain one line, which is a string acting as a key i.e.
# opening the key
with open("file-key.key", "rb") as file_key:
  key = file_key.read()
# using the generated key
fernet = Fernet(key)
# getting input from user
input_data = input("Enter the data to encrypt: ").encode()
```

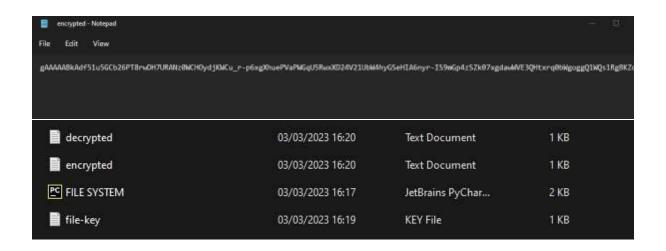
```
# encrypting the input data
encrypted = fernet.encrypt(input_data)

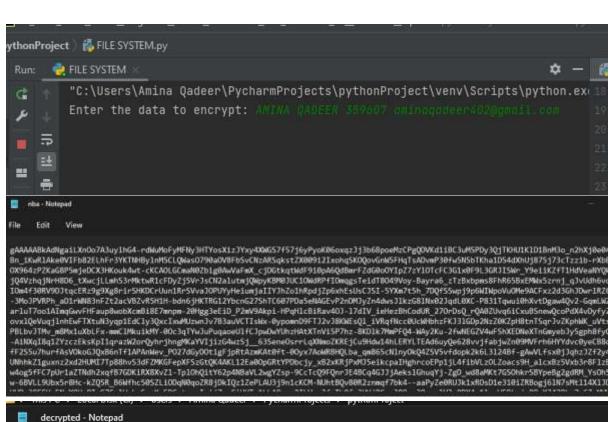
# writing the encrypted data to a file
with open("encrypted.txt", "wb") as encrypted_file:
    encrypted_file.write(encrypted)

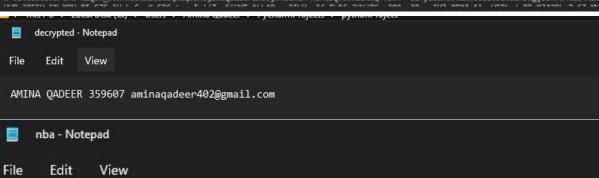
# decrypting the data from the file
with open("encrypted.txt", "rb") as encrypted_file:
    encrypted = encrypted_file.read()
    decrypted = fernet.decrypt(encrypted)

# writing the decrypted data to a separate file
with open("decrypted.txt", "wb") as decrypted_file:
    decrypted_file.write(decrypted)
```

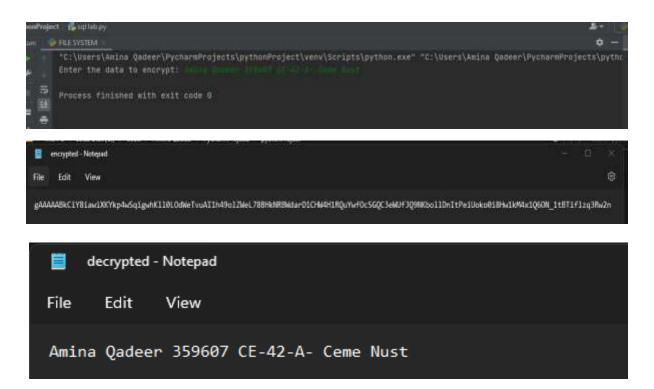
### **OUTPUTS:**







Name, Team, Number, Position, Age, Height, Weight, College, Salary Avery Bradley, Boston Celtics, 0.0, PG, 25.0, 6-2, 180.0, Texas, 7730337.0 Jae Crowder, Boston Celtics, 99.0, SF, 25.0, 6-6, 235.0, Marquette, 6796117.0 John Holland, Boston Celtics, 30.0, SG, 27.0, 6-5, 205.0, Boston University, R.J. Hunter, Boston Celtics, 28.0, SG, 22.0, 6-5, 185.0, Georgia State, 1148640.0 Jonas Jerebko, Boston Celtics, 8.0, PF, 29.0, 6-10, 231.0, ,5000000.0 Amir Johnson, Boston Celtics, 90.0, PF, 29.0, 6-9, 240.0, ,12000000.0 Jordan Mickey, Boston Celtics, 55.0, PF, 21.0, 6-8, 235.0, LSU, 1170960.0 Kelly Olynyk, Boston Celtics, 41.0, C, 25.0, 7-0, 238.0, Gonzaga, 2165160.0 Terry Rozier, Boston Celtics, 12.0, PG, 22.0, 6-2, 190.0, Louisville, 1824360.0 Marcus Smart, Boston Celtics, 36.0, PG, 22.0, 6-4, 220.0, Oklahoma State, 3431040.0 Jared Sullinger, Boston Celtics, 7.0, C, 24.0, 6-9, 260.0, Ohio State, 2569260.0 Isaiah Thomas, Boston Celtics, 4.0, PG, 27.0, 5-9, 185.0, Washington, 6912869.0 Evan Turner, Boston Celtics, 11.0, SG, 27.0, 6-7, 220.0, Ohio State, 3425510.0 James Young, Boston Celtics, 13.0, SG, 20.0, 6-6, 215.0, Kentucky, 1749840.0 Ln 1, Col 1



THE END