```
1
     Generating RSA Key Pair.
 2
 3
     Transforming the Public Key into Base64 format to share it with the Server.
 4
 5
     Building payload request H5 model from the Server.
 6
 7
     Requesting an ANN Model from Server.
8
9
     Decrypting the random AES Key using which the model was encrypted.
10
11
     Decrypting the model.
12
13
     Saving the decrypted model.
14
     ann id=simple model h5 1683991151.0928674.h5.encrypted
15
16
     Loading the decrypted model.
17
     ann id=simple model h5 1683991151.0928674.h5.encrypted
18
19
     Building payload to send to the server.
20
21
     secret message: message id:74aadc09-5e13-4064-97f5-234c261499f5
22
     English: FYKO is a cool project
23
     Telugu: FYKO ఒక మంచి ప్రాజెక్ట్
24
     Hindi: FYKO एक अच्छा प्रोजेक्ट है
25
     Portugese: FYKO é um projeto legal
26
     Thai: FYKO เป็นโครงการที่ยอดเยี่ยม
     Chinese: FYKO是一個很酷的項目
27
28
     Japanese: FYKOはクールなプロジェクトです
29
    Korean: FYKO는 멋진 프로젝트입니다
30
     Irish: Is tionscadal fionnuar é FYKO
31
     مشروع رائع Arabic: FYKO
32
     request json={'random string': 'dd244843-b414-4a26-81c1-b454634cfb62',
33
     'utc time seconds': 1683991151, 'encrypted message':
     '7+/Dro6/n2hIAvlmuCPCSu6NiJYv1UTW155KSbphUCebO/WLEKZKFO+lI5F2CfOYHV6v6KMzfoHYPcvO4K7HnHz+
     eQdw4oU/CqcMREfdTZSm+5GNoTps9qJHSTObyjNaDJGGX8xuZDAiLwmiQWbFD/4BqCkWsIRQ8oaipZgnG717H4qE/
     OvpJhqYkzeK4eaqpuf2HvXzBiOwatqzT1WEO8TzTqe1DzvfywWct9JMAzy6rb3038/Pv3LOFtZMCOwlx2f807UJH3
     V0aE3z/71qkzBYohxZQO+1Qtr5DReU2QyeJYbJfB8RsZsxFmqEwJ7k1uSNgn3bzYeTumCLvJKj7T1MnA0nguqEXX3
     QvPWCONtuqvYVYtkLvqRNYgoMS6CPHFJ8xrvMvyZNYZkaGUunLC4r15VgTxxixa8wkGgzQx8mt0/hNYiBSgYdsFL/
     N3L1gpoUZ9Zc11w2IWwEfWF/fI3aNLY68M2bMr15zgSmVE6q0ZRVqZkx35j1NdLS05pSmGonHnNtvGvC0trTnz34k
     SD/wDFvW3Ct82Iq5YornuN9Du/ej3jX0KI8ON4lgixLceY9e/2ZiTsDH8f8ezKpAZF+HfyhDAV4uz82DZsb2Tit3D
     ux3GMvIqARWOlY1shlnmV+XSS/zKjv1z0JaTjakNanTU3yGf4K1uFGWgTnTmhMKDB9IVykHMTv6ex7dPxK1WymdUj
     C8YE6iEfTINKzeiESbIR131N2TE//VRC6LY/LC1MAB86isIFM2RteAn+w6Z9q1m/HYZqVj1SBT34dFNAqtqc8qQcI
     t2qXZZZH0kPbS9mV9/DOtonuhqScZlm37SVrnMBJkAqiP8eV6Svjm61703IetycgAroT3RwLy0abTUiV000Dbsbc6
     q5IA/kXwtIgJ2e51xBGtJCulH5hbvOae1UhhU9BQWZAE9fVSC+3mHEuufBa8kKT6SOzVGzqbO2VQ2jRadE+kOcBLT
     CIhOEV5DuQnhvOodHnRGX5174=', 'ann id': 'simple model h5 1683991151.0928674.h5.encrypted'}
34
35
     Sending request to the Server with encrypted message, random string, utc time and ann id.
36
37
     response json={'request message': 'message'
     id:74aadc09-5e13-4064-97f5-234c261499f5\nEnglish: FYKO is a cool project \nTelugu: FYKO
     ఒకమంచి ప్రాజెక్ట్ \nHindi: FYKO एक अच्छा प्रोजेक्ट है \nPortugese: FYKO é um projeto legal \nThai: FYKO
     เป็นโครงการที่ยอดเยี่ยม \nChinese: FYKO是一個很酷的項目 \nJapanese: FYKOはクールなプロジェクトです \nKorean: FYKO는
     멋진 프로젝트입니다 \nIrish: Is tionscadal fionnuar é FYKO \nArabic: FYKO '،مشروع رائع
38
39
     Verifying decrypted message sent back by the Server:
40
41
     Original Message: message id:74aadc09-5e13-4064-97f5-234c261499f5
42
     English: FYKO is a cool project
     Telugu: FYKO ఒక మంచి ప్రాజెక్ట్
43
     Hindi: FYKO एक अच्छा प्रोजेक्ट है
44
45
     Portugese: FYKO é um projeto legal
46
     Thai: FYKO เป็นโครงการที่ยอดเยี่ยม
47
     Chinese: FYKO是一個很酷的項目
     Japanese: FYKOはクールなプロジェクトです
48
49
    Korean: FYKO는 멋진 프로젝트입니다
50
     Irish: Is tionscadal fionnuar é FYKO
51
     Arabic: FYKO مشروع رائع
52
     Message decoded by Server: message id:74aadc09-5e13-4064-97f5-234c261499f5
```

```
English: FYKO is a cool project
54 Telugu: FYKO ఒక మంచి ప్రాజెక్ట్
55 Hindi: FYKO एक अच्छा प्रोजेक्ट है
56 Portugese: FYKO é um projeto legal
   Thai: FYKO เป็นโครงการที่ยอดเยี่ยม
57
58 Chinese: FYKO是一個很酷的項目
59 Japanese: FYKOはクールなプロジェクトです
60 Korean: FYKO는 멋진 프로젝트입니다
61 Irish: Is tionscadal fionnuar é FYKO
62 Arabic: FYKO مشروع رائع
63
   Is the original secret message sent equal to the request message in response: True
64
65
    Replay Attack Scenario:
66
    send stale message response json={'error message': 'Stale Request: Rejecting it'}
67
68
     Future Request Scenario:
     send future message response json={'error message': 'Request from the future: Rejecting
69
     it'}
70
71
    Wrong random string scenario:
72
     send wrong inputs response json={'request message': 'could not decrypt'}
```