```
maschlining@Mark-PC:~/jh_arm/rsa_project$ qemu-arm ./rsa_program
==== RSA Encryption System =====
    Select an option:
    1 - Generate RSA Key Pair
    2 - Encrypt a Message
    3 - Decrypt a Message
    Selection: 3
Enter the private key (d): 1355
Enter the modulus (n): 1739
[Success] Decryption complete.
Decrypted message saved in 'decrypted.txt'.
maschlining@Mark-PC:~/jh arm/rsa project$ cat encrypted.txt
357 1449 183 113 210 1449 1131 183 1449 1131 183 1545 991 1064 1718 maschlining@Mark-PC:~/jh arm/rsa
project$ cat decrypted.txt
Hi this is Markmaschlining@Mark-PC:~/jh arm/rsa project$
maschlining@Mark-PC:~/jh arm/rsa project$ qemu-arm ./rsa program
==== RSA Encryption System =====
     Select an option:
     1 - Generate RSA Key Pair
     2 - Encrypt a Message
     3 - Decrypt a Message
     Selection: 1
Enter the first prime number (p): 47
Enter the second prime number (q): 37
Enter a public key exponent (e): 200
Error: Invalid public exponent 'e'. It must be 1 < e < phi(n) and coprime to phi(n).
Enter a public key exponent (e): 1
Error: Invalid public exponent 'e'. It must be 1 < e < phi(n) and coprime to phi(n).
Enter a public key exponent (e): 500000
Error: Invalid public exponent 'e'. It must be 1 < e < phi(n) and coprime to phi(n).
Enter a public key exponent (e): 1656
Error: Invalid public exponent 'e'. It must be 1 < e < phi(n) and coprime to phi(n).
Enter a public key exponent (e): 1655
--- Keys Generated Successfully ---
Public Key (n, e): (1739, 1655)
Private Key (n, d): (1739, 1655)
```

```
maschlining@Mark-PC:~/jh_arm/rsa_project$ qemu-arm ./rsa_program
==== RSA Encryption System =====
    Select an option:
    1 - Generate RSA Key Pair
    2 - Encrypt a Message
    3 - Decrypt a Message
    Selection: 1
Enter the first prime number (p): 47
Enter the second prime number (q): 37
Enter a public key exponent (e): 11
--- Keys Generated Successfully ---
Public Key (n, e): (1739, 11)
Private Key (n, d): (1739, 1355)
maschlining@Mark-PC:~/jh_arm/rsa_project$ qemu-arm ./rsa_program
==== RSA Encryption System =====
    Select an option:
    1 - Generate RSA Key Pair
    2 - Encrypt a Message
    3 - Decrypt a Message
    Selection: 2
Enter the public key (e): 11
Enter the modulus (n): 1739
Enter the text to encrypt: Hi this is Mark
[Success] Encryption complete.
Encrypted message saved in 'encrypted.txt'.
maschlining@Mark-PC:~/jh arm/rsa project$ cat encrypted
cat: encrypted: No such file or directory
maschlining@Mark-PC:~/jh_arm/rsa_project$ cat encrypted.txt
357 1449 183 113 210 1449 1131 183 1449 1131 183 1545 991 1064 1718
```