## IT352: Information Assurance and Security Lab Assignment 4

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Input from user - p , q , r (Random Number), s (Private Key ), c (challenge)

Code-

## Validation of input

- 1) p and q should be prime
- 2) Random number >= 1 and Random number <= p\*q-1
- 3) Private Key >=1 and Private Key <=p\*q-1

## After validation of input

Witness X=(r\*r)%n

Public Key V = (s\*s)%n

Response  $Y = r * (s^c)\%n$ 

Authentication check at server-

If lhs==rhs:

Then Authenticated user

Else:

**Not Authenticated user**