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IBM18CS097

Demonstration of RSA using cryptool.

Encrypt a message of your choice using values

(a)  $p=59$ ,  $q=71$ ,  $e=13$ .

(i) open cryptool.

(ii) click on encrypt decrypt  $\rightarrow$  A symmetric

(iii) Select RSA demonstration.

(iv) Display will pop up for prime numbers  $p$  &  $q$  public key  $e$ .

(v) give  $p=59$ ,  $q=71$  i.e. 13.

(6) Select a plaintext or if text & numbers

(7) Enter message = "Hello".

(8) Click on encrypt.

(9) Input text will be separated into segments of size 1.

## c # l # l # 0.

(10) The number input and base 10 format

104 # 101 # 108 # 108 # 111

(ii) encryption and operation (i)  $m(i) \cdot e \pmod{N}$

0921 # 3079 # 1255 # 1255 # 2710.

(11)  $p=673$ ,  $q=619$ ,  $e=13$ .

Procedure Same.

(12) he # l # 0.

26785 # 27756 # 28448.

Encrypt into

0108 1798 # other

as decryption same window