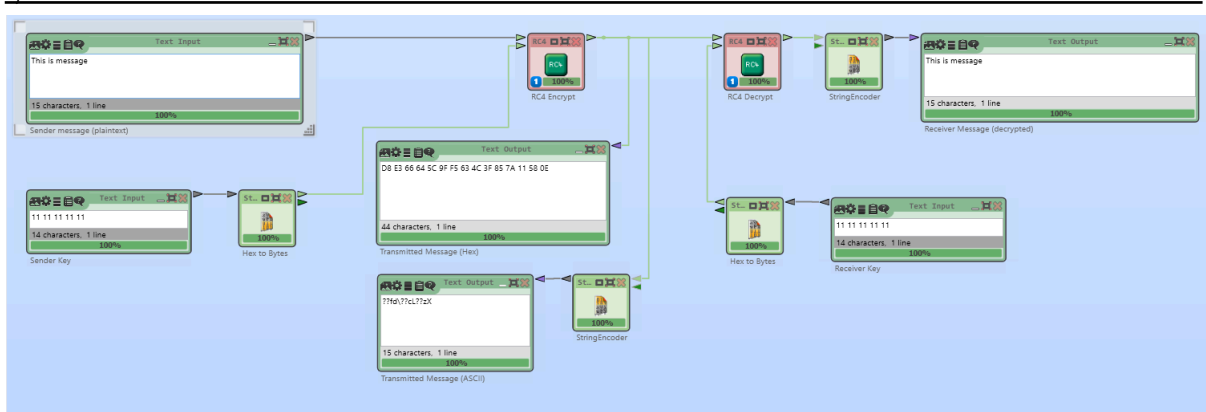# Lab-7
Cryptography
RC4
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Roll No.: 2021bcy0025


```
j=0
p=[1,2,2,2]
k=[1,2,3,6]
T=[1,2,3,6,1,2,3,6]
S=[0,0,0,0,0,0,0,0]
c=0
for i in range(0,8):
    S[i]=i
for i in range(0,8):
    j=(j+S[i]+T[i])%8
    c=S[i]
    S[i]=S[j]
    S[j]=c
i=0
j=0
for q in range(0,4):
    i=(i+1)%8

    j=(j+S[i])%8

    c=S[i]
    S[i]=S[j]
    S[j]=c
    t=(S[i]+S[j])%8
      k=S[t]
    p[q]=p[q]^k
print("Encrypted Text",p)
```

```
smraddhi@smraddhis-MacBook-Air Cryptography % python -u "/Users/smraddhi/Documents/Cryptography
/rc4.py"
Encrypted Text [4, 3, 2, 3]
smraddhi@smraddhis-MacBook-Air Cryptography %
```