**Practical 10**

Write a program to perform Diffie Hellman key Exchange and perform Caesar cipher algorithm

* **CODE :-**

import random

import hashlib

import sys

g=7

p=11

a=3

b=6

A = (g\*\*a) % p

B = (g\*\*b) % p

print('g: ',g,' , n: ',p, ' ')

print('\nA calculates:')

print('a : ',a)

print('A value (A): ',A,' (g^a) mod p')

print('\nB calculates:')

print('b : ',b)

print('B value (B): ',B,' (g^b) mod p')

print('\nA calculates:')

keyA=(B\*\*a) % p

print('Key: ',keyA,' (B^a) mod p')

print('\nB calculates:')

keyB=(A\*\*b) % p

print('Key: ',keyB,' (A^b) mod p')

* **OUTPUT :-**

