DIFFIE - HELLMAN Key Exchange

```
print("Both Parties Agree To A Single Prime No.")
prime = int(input(" Enter A Prime No To Be Considered : "))
print("Both Must Agree With A Single Primitive Root To Use")
root = int(input(" Enter The Primitive Root : "))
     Both Parties Agree To A Single Prime No.
     Enter A Prime No To Be Considered: 31
     Both Must Agree With A Single Primitive Root To Use
      Enter The Primitive Root: 11
alicesecret = int(input("Enter A Secret No From User 1 : "))
bobsecret = int(input("Enter A Secret no From User 2 : "))
print('\n')
 Enter A Secret No From User 1: 98
     Enter A Secret no From User 2: 60
print("Party1's Public Key -> A = root^alicesecre*mod(prime))")
alicepublic = (root**alicesecret)%prime
print("Party1's Public Key Is : ", alicepublic, "\n")
print("Party2's Public Key -> A = root^bobsecre*mod(prime))")
bobpublic = (root**bobsecret)%prime
print("Party2's Public Key Is : ", bobpublic, "\n")
     Party1's Public Key -> A = root^alicesecre*mod(prime))
     Party1's Public Key Is: 19
     Party2's Public Key -> A = root^bobsecre*mod(prime))
     Party2's Public Key Is : 1
```

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