Assignment 1 on Module 3

1. Converting Binary to decimal:

```
while True:
    print ("Enter 'x' for exit.")
    binary = input (" Enter number in Binary format:")
    if binary == 'x':
        break
    else:
        decimal = int (binary, 2)
        print (binary, "in decimal =", decimal, "\n").
```

2. Fibonacci Numbers:

```
if n_terms <= 0:
    print("Invalid, please enter a positive integer")
elif n_terms == 1:
    print("fibonacci Sequence upto", n_terms, ":")
    print(n1)
else:
    print("fibonacci series upto", n_terms, ":")
    while count < n_terms:
        print(n1)
        nth = n1 + n2
        n1 = n2
        n2 = nth
        count += 1
```

3. Multiplication table of k:

```
num = int(input("show the multiplication table of :"))
for i in range(1,11):
    print(num, 'x', i, '=', num*i)
```

4. GCD of Two numbers:

```
def gcd(a,b):
    if(b==0):
        return a
    else:
        return gcd(b, a%b)
a = int(input("Enter first number :"))
b = int(input("Enter Second Number :"))
GCD = gcd(a,b)
print("GCD is: ")
print(GCD)
```