



## Assignment - 6

→ Convert Binary number to decimal

```
b-num = list(input("Input a binary number:"))  
value = 0
```

```
for i in range(len(b-num)):
```

```
    digit = b-num.pop()
```

```
    if digit == '1':
```

```
        value = value + pow(2, i)
```

```
print("The decimal value of the number is", value)
```

→ Generate first N number of Fibonacci numbers. Take N value from user.

```
nterms = int(input("How many terms?"))
```

```
# first two terms
```

```
n1, n2 = 0, 1
```

```
count = 0
```

```
if nterms <= 0
```

```
    print("Please enter a positive integer")
```

```
elif nterms == 1:
```

```
    print("Fibonacci sequence upto", nterms, ":")
```

```
    print(n1)
```

```
else:
```

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```
print ("Fibonacci sequence:")
```

```
while count < n terms
```

```
    print(n1)
```

```
    nth = n1 + n2
```

```
    # update values
```

```
    n1 = n2
```

```
    n2 = nth
```

```
    count += 1
```

3) Display multiplication table of k. Take k value from user.

→

```
num = int(input("Enter the number:"))
```

```
print("Multiplication Table of", num)
```

```
for i in range(1, 11):
```

```
    print(num, "X", i, "=", num * i)
```

4) Take 10 integers from keyboard using loop and print their average value on the screen

→

```
int main()
```

```
{
```

using namespace std;

int sum = 0, i, n;

for (i = 0; i < 10; i++)

{

cout << "Enter number" << endl;

cin >> n;

sum = sum + n;

}

cout << "Sum is" << sum << endl;

return 0;

}

Print the following pattern:

\*

\* \*

\* \* \*

\* \* \* \*

→

def pypart (n);

for i in range (0, n):

for j in range (0, i+1):

print ("\*", end = " ")

print ("\n")

5.11.21

- 5) Write a program to find GCD or HCF of given two numbers.

→

```
def compute_hcf(x, y):  
    if x > y:  
        smaller = y  
    else:  
        smaller = x  
    for i in range(1, smaller + 1):  
        if ((x % i == 0) and (y % i == 0)):  
            hcf = i  
    return hcf  
num1 = 54  
num2 = 24  
print("The H.C.F is", compute_hcf(num1, num2))
```

- 6) Write a python program that accepts a word from the user and reverse it.

→

```
word = input("Enter a word to reverse:")  
for char in range(len(word) - 1, -1, -1):  
    print(word[char], end=" ")  
print("\n")
```



3) Write a python program to count the number of even and odd numbers from a series of numbers.

→

```
NumList = []
```

```
Even-count = 0
```

```
Odd-count = 0
```

```
Number = int(input(" please enter the Total number  
of list elements :"))
```

```
for i in range(1, Number+1):
```

```
    value = int(input(" please enter the value of  
    '%d Element :'%i))
```

```
    NumList.append(value)
```

```
for j in range(NumList):
```

```
    if (NumList[j] % 2 == 0):
```

```
        Even-count = Even-count + 1
```

```
    else
```

```
        Odd-count = Odd-count + 1
```

```
print ("Total number of Even numbers in this  
list = ", Even-count)
```

```
print ("Total number of Odd numbers in this  
list = ", Odd-count)
```



Q1 Write a python program that prints all the numbers from 0 to 6 except 3 and 6

```
→  
for x in range(6):  
    if (x == 3 or x == 6):  
        continue  
    print(x, end = ' ')  
print("\n")
```