In [2]:
```
#python program to convert Binary 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)
```

```
Input a binary number: 11011
The decimal value of the number is 27
```

In [3]:
```
#python program for Fibonacci series
n = int(input("Enter the value of 'n': "))
a = 0
b = 1
sum = 0
count = 1
print("Fibonacci Series: ", end = " ")
while(count <= n):
  print(sum, end = " ")
  count += 1
  a = b
  b = sum
  sum = a + b
```

```
Enter the value of 'n': 4
Fibonacci Series:  0 1 1 2
```

In [6]:
```
#python program for multiplication table
num = int(input("Enter the number: "))
print("Multiplication Table of", num)
for i in range(1, 11):
   print(num,"X",i,"=",num * i)
```

```
Enter the number: 8
Multiplication Table of 8
8 X 1 = 8
8 X 2 = 16
8 X 3 = 24
8 X 4 = 32
8 X 5 = 40
8 X 6 = 48
8 X 7 = 56
8 X 8 = 64
8 X 9 = 72
8 X 10 = 80
```

In [ ]:

In [23]:
```
#Take 10 integers from keyboard using loop and print their average valu
e on the screen Print the   following patterns using loop :
def pyramid(p):
   for m in range(0, p):
      for n in range(0, m+1):
         print("* ",end="")
      print("\r")
p = 5
pyramid(p)
```

```
*
* *
* * *
* * * *
* * * * *
```

In [2]:
```
#Write a program to find greatest common divisor (GCD) or highest commo
n factor (HCF) of given two numbers.
num1 = float(input("  Enter the First Value  Num1 : "))
num2 = float(input("  Enter the Second Value Num2 : "))
a = num1
b = num2
while(num2 != 0):
    temp = num2
```

```
    num2 = num1 % num2
    num1 = temp
gcd = num1
print("\n HCF of {0} and {1} = {2}".format(a, b, gcd))
```

```
  Enter the First Value  Num1 : 5
  Enter the Second Value Num2 : 7

 HCF of 5.0 and 7.0 = 1.0
```

In [1]:
```
#Write a Python program that accepts a word from the user and reverse i
t
word = input("Input a word to reverse: ")
for char in range(len(word) - 1, -1, -1):
  print(word[char], end="")
print("\n")
```

```
Input a word to reverse: mani
inam
```

In [2]:
```
#Write a Python program to count the number of even and odd numbers fro
m 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(Number):
    if(NumList[j] % 2 == 0):
        Even_count = Even_count + 1
    else:
        Odd_count = Odd_count + 1
print("\nTotal Number of Even Numbers in this List =  ", Even_count)
print("Total Number of Odd Numbers in this List = ", Odd_count)
```

```
Please enter the Total Number of List Elements: 5
```

```
Please enter the Value of 1 Element : 43
Please enter the Value of 2 Element : 3
Please enter the Value of 3 Element : 5
Please enter the Value of 4 Element : 6
Please enter the Value of 5 Element : 8

Total Number of Even Numbers in this List =   2
Total Number of Odd Numbers in this List =  3
```

In [3]:

```python
#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")
```

```
0 1 2 4 5
```