In [1]:
```
1.Convert Binary number to decimal
print("Enter 'x' for exit.");
binary = input("Enter number in Binary Format: ");
if binary == 'x':
    exit();
else:
    decimal = int(binary, 2);
    print(binary,"in Decimal =",decimal);
```

```
Enter 'x' for exit.
Enter number in Binary Format: 101011
101011 in Decimal = 43
```

In [4]:
```
2.Generate first N number of Fibonacci numbers. Take N value from user
  def Fibonacci(n):
    if n<0:
        print("Incorrect input")
    # First Fibonacci number is 0
    elif n==1:
        return 0
    # Second Fibonacci number is 1
    elif n==2:
        return 1
    else:
        return Fibonacci(n-1)+Fibonacci(n-2)

print(Fibonacci(8))
```

```
13
```

In [4]:
```
num=int(input("enter a number"))
for i in range(1,11):
    print(num,'x',i,'=',num*i)
```

```
enter a number16
16 x 1 = 16
16 x 2 = 32
16 x 3 = 48
16 x 4 = 64
16 x 5 = 80
16 x 6 = 96
16 x 7 = 112
16 x 8 = 128
16 x 9 = 144
16 x 10 = 160
```

In [2]:
```
4b.program to print pattren
# *
# * *
# * * *
# * * * *
rows=4
for i in range(0,rows):
    for j in range(0,i+1):
        print('*',end='')
    print('\r')
```

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

In [24]:
```
5.Write a program to find greatest common divisor (GCD) or highest common factor (HCF) of gi
ven 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))
```

```
The H.C.F. is 6
```

In [25]:
```
6.Write a Python program that accepts a word from the user and reverse it
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: Ajay Krishna Reddy
yddeR anhsirK yajA
```

In [26]:
```
7.Write a Python program to count the number of even and odd numbers from a series of number
s.
numbers = (10, 12, 13, 14, 15, 16, 17, 18, 19)
count_odd = 0
count_even = 0
for x in numbers:
        if not x % 2:
            count_even+=1
        else:
            count_odd+=1
print("Number of even numbers :",count_even)
print("Number of odd numbers :",count_odd)
```

```
Number of even numbers : 5
Number of odd numbers : 4
```

In [27]:
```
8.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
```

In [ ]:

In [ ]: