```
In [1]: from math import sqrt
         print("Quadratic function : (a * x^2) + b*x + c")
         a = float(input("a: "))
         b = float(input("b: "))
         c = float(input("c: "))
         r = b^*2 - 4^*a^*c
         if r > 0:
             num\_roots = 2
             x1 = (((-b) + sqrt(r))/(2*a))
             x2 = (((-b) - sqrt(r))/(2*a))
             print("There are 2 roots: %f and %f" % (x1, x2))
         elif r == 0:
             num_roots = 1
             x = (-b) / 2*a
             print("There is one root: ", x)
         else:
             num_roots = 0
             print("No roots, discriminant < 0.")</pre>
         Quadratic function : (a * x^2) + b*x + c
         a: 5
        b: 20
        c: 10
        There are 2 roots: -0.585786 and -3.414214
In [2]: rows = int(input("Enter number of rows "))
         for i in range(0, rows):
             for j in range(0, i + 1):
                 print("*", end=' ')
             print("\r")
        Enter number of rows 5
In [3]: num = 7
         for i in range(1, 11):
            print(num, 'x', i, '=', num*i)
        7 \times 1 = 7
        7 \times 2 = 14
        7 \times 3 = 21
        7 \times 4 = 28
        7 \times 5 = 35
        7 \times 6 = 42
        7 \times 7 = 49
        7 \times 8 = 56
        7 \times 9 = 63
        7 \times 10 = 70
In [4]: | nterms = int(input("How many terms? "))
         n1, n2 = 0, 1
         count = 0
         if nterms <= 0:</pre>
            print("Please enter a positive integer")
         elif nterms == 1:
            print("Fibonacci sequence upto", nterms, ":")
            print(n1)
         else:
            print("Fibonacci sequence:")
            while count < nterms:</pre>
               print(n1)
                nth = n1 + n2
                n1 = n2
                n2 = nth
                count += 1
        How many terms? 7
        Fibonacci sequence:
        1
        1
         2
         3
         5
         8
In [5]: def convertToBinary(n):
            if n > 1:
                convertToBinary(n//2)
            print(n % 2,end = '')
         dec = 34
         convertToBinary(dec)
         print()
         100010
```