1. Python Program for n-th Fibonacci number

def fibonacci(n):

if n <= 2:

return n - 1

else:

return fibonacci(n - 1) + fibonacci(n - 2)

n = 8

print(fibonacci(n))

1. Python Program for How to check if a given number is Fibonacci number?

def isPerfectSquare(x):

    s = int(math.sqrt(x))

    return s\*s == x

def isFibonacci(n):

return isPerfectSquare(5\*n\*n + 4) or isPerfectSquare(5\*n\*n - 4)

for i in range(1,11):

     if (isFibonacci(i) == True):

         print (i,"is a Fibonacci Number")

     else:

         print (i,"is a not Fibonacci Number ")

1. Python Program for n\’th multiple of a number in Fibonacci Series

def findPosition(k, n):

    f1 = 0

    f2 = 1

    i =2;

    while i!=0:

        f3 = f1 + f2;

        f1 = f2;

        f2 = f3;

        if f2%k == 0:

            return n\*i

        i+=1

         return

1. Program to print ASCII Value of a character

c = 'p'

print("The ASCII value of '" + c + "' is", ord(c))

1. Python Program for Sum of squares of first n natural numbers

def squaresum(n) :

    return (n \* (n + 1) \* (2 \* n + 1)) // 6

n = 4

print(squaresum(n))

1. Python Program for cube sum of first n natural numbers

n=5

s=0

for i in range(1,n+1):

    s=s+pow(i,3)

print(s)

1. Python Program to find sum of array

arr = [10,20,30,40,50]

print(sum(arr))

1. Python Program to find largest element in an array

def largest(arr, n):

    max = arr[0]

    for i in range(1, n):

        if arr[i] > max:

            max = arr[i]

    return max

1. Python Program for array rotation

def rotateArray(arr, n, d):

    temp = []

    i = 0

    while (i < d):

        temp.append(arr[i])

        i = i + 1

    i = 0

    while (d < n):

        arr[i] = arr[d]

        i = i + 1

        d = d + 1

    arr[:] = arr[: i] + temp

    return arr

1. Python Program for Reversal algorithm for array rotation

def rverseArray(arr, start, end):

    while (start < end):

        temp = arr[start]

        arr[start] = arr[end]

        arr[end] = temp

        start += 1

        end = end-1

1. Python Program to Split the array and add the first part to the end

def splitArr(arr, n, k):

    for i in range(0, k):

        x = arr[0]

        for j in range(0, n-1):

            arr[j] = arr[j + 1]

        arr[n-1] = x

arr = [12, 10, 5, 6, 52, 36]

n = len(arr)

position = 2

splitArr(arr, n, position)

for i in range(0, n):

    print(arr[i], end = ' ')