2.Given an array arr[] of integers and an integer K, the task is to print all subsets of the given array with the sum equal to the given target K.

Input: arr[] = {5, 10, 12, 13, 15, 18}, K = 30

Output: {12, 18}, {5, 12, 13}, {5, 10, 15}

Explanation:

Subsets with sum 30 are:

12 + 18 = 30

5 + 12 + 13 = 30

5 + 10 + 15 = 30

Solution:-

# Python3 implementation of the above approach

# Function to print the subsets whose

# sum is equal to the given target K

def sumSubsets(sets, n, target) :

# Create the new array with size

# equal to array set[] to create

# binary array as per n(decimal number)

x = [0]\*len(sets);

j = len(sets) - 1;

# Convert the array into binary array

while (n > 0) :

x[j] = n % 2;

n = n // 2;

j -= 1;

sum = 0;

# Calculate the sum of this subset

for i in range(len(sets)) :

if (x[i] == 1) :

sum += sets[i];

# Check whether sum is equal to target

# if it is equal, then print the subset

if (sum == target) :

print("{",end="");

for i in range(len(sets)) :

if (x[i] == 1) :

print(sets[i],end= ", ");

print("}, ",end="");

# Function to find the subsets with sum K

def findSubsets(arr, K) :

# Calculate the total no. of subsets

x = pow(2, len(arr));

# Run loop till total no. of subsets

# and call the function for each subset

for i in range(1, x) :

sumSubsets(arr, i, K);

# Driver code

if \_\_name\_\_ == "\_\_main\_\_" :

arr = [ 5, 10, 12, 13, 15, 18 ];

K = 30;

findSubsets(arr, K);

output:-

