1. Write a program to find all integers from 5,500 to 6,000 that are divisible by 13 but not a multiple of 7.

2. Write a program to take two positive integers, R, and C, as input, then generate a matrix of R rows and C columns. The values should be random integers between -5 and 15.

import numpy as np

import random

r=4

c=5

for x in range(-5,16):

np.random.rand(r,c)

print(x)

a=np.random.randint(-5,16,(r,c))

a

3. Write a program to read a sequence of whitespace-separated words as input. Print an alphabetically sorted list of the unique words in the sequence. Extra: ignore case (upper/lower) when comparing for uniqueness.

a=("hi how are u")

b=a.split()

b.sort()

print(b)