Write a program to generate Pythagorean Triplets for the given limit.

Enter upper limit: 10

3 4 5

8 6 10

CODE:

def generate\_pythagorean\_triplets(limit):

triplets = []

for a in range(1, limit + 1):

for b in range(a, limit + 1):

c = (a\*\*2 + b\*\*2)\*\*0.5

if c.is\_integer() and c <= limit:

triplets.append((a, b, int(c)))

return triplets

# Example usage:

upper\_limit = int(input("Enter upper limit: "))

pythagorean\_triplets = generate\_pythagorean\_triplets(upper\_limit)

for triplet in pythagorean\_triplets:

print(" ".join(map(str, triplet)))

OUTPUT:

Enter upper limit: 10

3 4 5

6 8 10

>