**Sample Programs:**

**Distance b/w Two Points:**

import math

print("Enter x1")

x1=int(input())

print("Enter x2")

x2=int(input())

print("Enter y1")

y1=int(input())

print("Enter y2")

y2=int(input())

dis=int(math.sqrt((x2-x1)\*\*2+(y2-y1)\*\*2))

print("Distance={:10d}".format(dis))

**Pattern:**

print("+-----+-----+")

print("| |")

print("| |")

print("| |")

print("| |")

print("| |")

print("+-----+-----+")

print("| |")

print("| |")

print("| |")

print("| |")

print("| |")

print("+-----+-----+")

**if:**

m=eval(input("Enter the Marks:\t"))

if m>=85:

print("Distinction\n")

elif m>=65:

print("First Class\n")

elif m>=50:

print("Second Class\n")

else:

print("Fail\n")

**For:**

'''n=int(input("Enter Value:\t"))

for i in range(1,11):

print(n," X ",i," = ",i\*n)

else:

print("End")'''

n=int(input("Enter Value:\t"))

for i in range(1,11,2):

print(n," X ",i," = ",i\*n)

else:

print("End")

**while:**

n=int(input("Enter the value of N:\t"))

i=1

print("The Square Table is:")

while i<=n:

print(i,i\*i)

i=i+1

**while – else:**

'''i=1

while i<=5:

print(i)

if i==3:

break

i+=1

else:

print("done")'''

'''i=1

while i<=5:

print(i)

#if i==3:

# break

i+=1

else:

print("done")'''

i=0

while i<=5:

i=i+1

if i==3:

continue

print(i)

else:

print("done")