"""Program to generate multiplication table of a given number"""

def isInputValid(num):

"""The isInputValid function is used to ensure that the given input

has only numbers, if not the function returns False to the calling function"""

for i in num:

if i not in ["1","2","3","4","5","6","7","8","9","0"]:

return False

return True

def printMultiplicationTable(num):

"""The printMultiplicationTable function is used in this prgram to print

multiplication table of given number if the given input has all numbers"""

print("The multiplication table of {} is:".format(num))

for i in range(1,11):

print("{} x {} = {}".format(num,i,num\*i))

def main():

num=input()

if len(num)==0 or not isInputValid(num) or int(num)==0:

print("Invalid Input")

else:

printMultiplicationTable(int(num))

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

main()