## Q.1. Write a program to check whether a string is pangram or not

A sentence is a pangram if it contains every letter of the alphabet i.e. a-z

Test cases:

1. Input: quick brown fox jumps over the lazy dog

Output: Sentence is pangram

1. Input: 123456$#Hello

Output: Sentence is not a pangram

Refute Test cases:

1. Input: Jack quickly enjoyed the vibrant, mixed flavors of a cozy, warm pizza with extra cheese on top

Output: not a pangram

1. Input: Zoe quickly juggled six very large boxes full of exotic French pastries.

Output: not a pangram

In Python, the characters like ‘.’ and ‘,’ are not checked. Hence why it outputs not a pangram

**Program:**

def pangram(st):

letter=[0 for \_ in range(26)] #generate a list of 26 zero(s)

#traverse through string st

for i in st:

ch=i.lower()

if(ch.isalpha()):

letter[ord(ch)-97] = 1 #use ord() function to get ascii value of ch

#check for any 0 present in letter[] list

for i in letter:

if(i==0): return 0

print(letter)

return 1;

s=input("Enter sentence : ")

if(pangram(s)):

print("Sentence is a Pangram")

else:

print("Sentence is not a Pangram")

**Output:**

Input 1 :



Input 2 :



## Q.2. Write a program to convert seconds into hour:minute:second format

Test cases:

1. Input: 7845

Output: 2 Hours 10 Minutes 45 Seconds

1. Input: 9871

Output: 2 Hours 45 Minutes 31 Seconds

Refute Test cases:

1. Input: 7836.24

Output: ValueError: invalid literal for int() with base 10: '7836.24'

1. Input: Hello&

Output: ValueError: invalid literal for int() with base 10: 'Hello&'

In Python, since we are taking input for int data type for seconds, its unable to read values of string or float data type.

Hence it throws a ValueError

**Program:**

seconds=int(input("Enter seconds: "))

hrs=int(seconds/3600)

mins=int(seconds%3600/60)

sec= int(seconds%3600%60)

print("{:d} Hours : {:d} Minutes : {:d} Seconds".format(hrs,mins,sec))

**Output:**

Input 1 :



Input 2 :

