Assignment 1

Using python

# Count the occurrence of each character in the string

for char in str:

if char in char\_count:

char\_count[char] += 1

else:

char\_count[char] = 1

# Find the first non-repeating character

for char in str:

if char\_count[char] == 1:

return char

# Test the function

input\_str = "agettkgaeee"

result = find\_first\_non\_repeating\_char(input\_str)

print("First non-repeating character:", result)

Assignment 3

Using python

import string

def check\_alphabet\_presence(string\_input):

alphabet = string.ascii\_lowercase

for char in alphabet:

if char not in string\_input:

return "false"

return "true"

# Example usage

input\_string = "zacyjbbkfgtbhdalelqrm45pnisowtv"

result = check\_alphabet\_presence(input\_string)

print(result)

Assignment 3

Challenge : Using java

public class Main {

public static void main(String[] args) {

int rows = 5, k = 0;

for (int i = 1; i <= rows; ++i, k = 0) {

for (int space = 1; space <= rows - i; ++space) {

System.out.print(" ");

}

while (k != 2 \* i - 1) {

System.out.print("\* ");

++k;

}

System.out.println();

}

}

}