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ROLL NUMBER: 546

COURSE: MSc CS

SUBJECT: BIOINFORMATICS

**TOPIC: WRITE A CODE TO
COUNT THE NUMBER OF
REPETITION OF EACH
NUCLEOTIDE IN THE
SEQUENCE**

Practical No: 7

Aim: Perform a BLAST search on any genes sequence and writer a java/python code to count the no of repetition of each nucleotide in the sequence.

Code:

```
file=open("genes.txt","r")
r=file.read()
size=len(r)
score_A=0
score_C=0
score_T=0
score_G=0
for i in range(size):
    if(r[i]=='A'):
        score_A+=1
    elif (r[i]=='C'):
        score_C+=1
    elif (r[i]=='T'):
        score_T+=1
    elif (r[i]=='G'):
        score_G+=1
print("score of A is ",score_A)
print("score of C is ",score_C)
print("score of T is ",score_T)
print("score of G is ",score_G)
```

OUPUT:



The screenshot shows the IDLE Shell 3.11.0 window. The title bar reads "IDLE Shell 3.11.0". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The shell area displays the following text:

```
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>
===== RESTART: C:/Users/asif0/Desktop/Test.py =====
score of A is 7
score of C is 3
score of T is 4
score of G is 7
>>> |
```

The status bar at the bottom right indicates "Ln: 9 Col: 0".