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Class- MSc CS – I

Roll No.- 536

Subject – Bioinformatics

**Topic – Count the repetition of
each Nucleotide in the sequence**

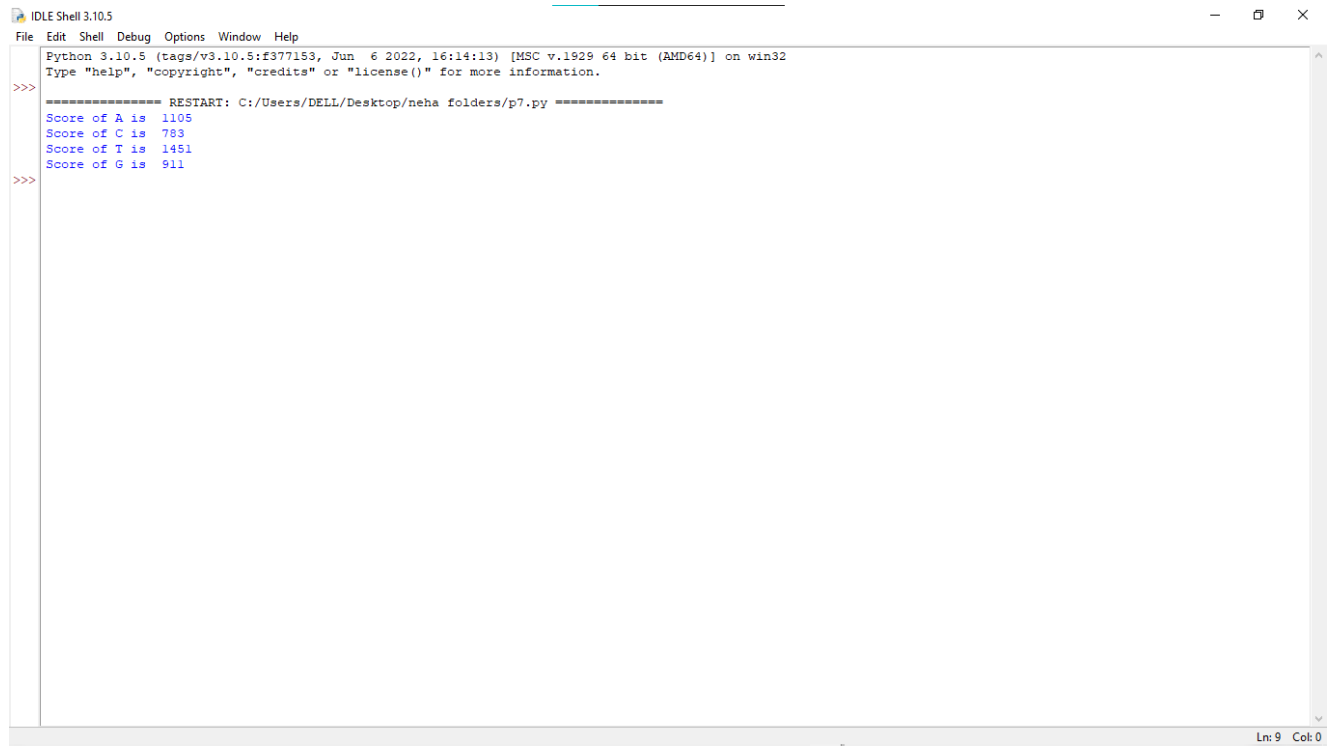
Practical No: 7

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('corona.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)
```

Output:



The screenshot shows a Python IDLE Shell window. The title bar reads "IDLE Shell 3.10.5". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The shell area displays the following text:

```
Python 3.10.5 (tags/v3.10.5:f377153, Jun 6 2022, 16:14:13) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/DELL/Desktop/neha folders/p7.py =====
Score of A is 1105
Score of C is 783
Score of T is 1451
Score of G is 911
>>>
```

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