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Class- MSc CS – I

Roll No.- 511

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:

```python
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:

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS E:\Python codes> python -u "e:\Python codes\blast.py"
Score of A is  1105
Score of C is  783
Score of T is  1451
Score of G is  911
```