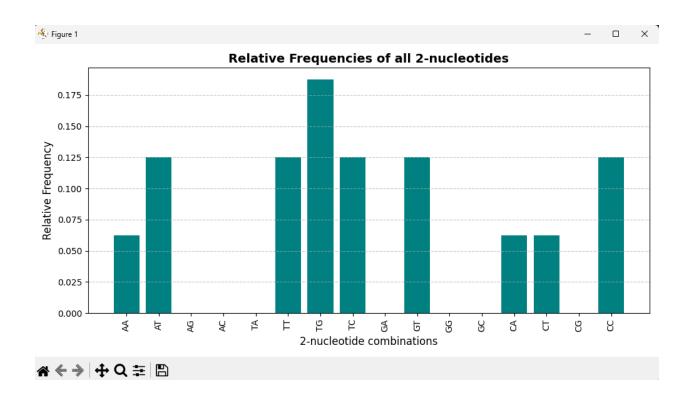
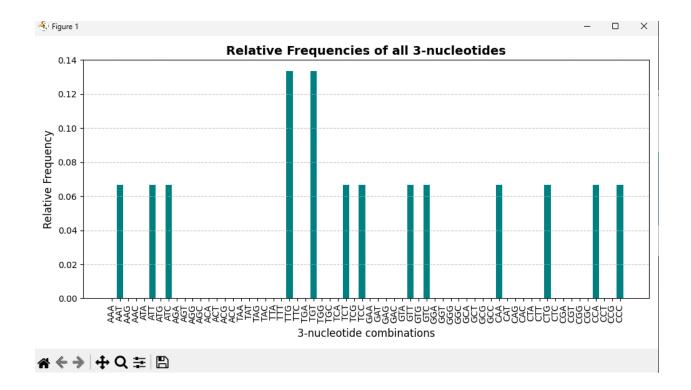
LAB2
AL-Ramahi Nidal 1241B
Zaffar Azzam 1241B
Ex1)





```
Sequence: ATTGTCCCAATCTGTTG
Sequence length: 17
Dinucleotide relative frequencies:
AA: 0.062
AT: 0.125
AG: 0.000
AC: 0.000
TA: 0.000
TT: 0.125
TG: 0.188
TC: 0.125
GA: 0.000
GT: 0.125
GG: 0.000
GC: 0.000
CA: 0.062
CT: 0.062
CG: 0.000
CC: 0.125
Trinucleotide relative frequencies:
AAA: 0.000
AAT: 0.067
AAG: 0.000
AAC: 0.000
ATA: 0.000
ATT: 0.067
ATG: 0.000
```

## Ex2 )

Same plot figuers as ex1.

```
Dinucleotides found (order of first appearance):
['AT', 'TT', 'TG', 'GT', 'TC', 'CC', 'CA', 'AA', 'CT']
Trinucleotides found (order of first appearance):
['ATT', 'TTG', 'TGT', 'GTC', 'CCC', 'CCA', 'CAA', 'AAT', 'ATC', 'TCT', 'CTG', 'GTT']
Dinucleotide stats:
AT: count=2, rel_freq=0.1250
TT: count=2, rel_freq=0.1250
TG: count=3, rel freq=0.1875
GT: count=2, rel_freq=0.1250
TC: count=2, rel_freq=0.1250
CC: count=2, rel freq=0.1250
CA: count=1, rel_freq=0.0625
AA: count=1, rel_freq=0.0625
CT: count=1, rel_freq=0.0625
Trinucleotide stats:
ATT: count=1, rel_freq=0.0667
TTG: count=2, rel_freq=0.1333
TGT: count=2, rel_freq=0.1333
GTC: count=1, rel freq=0.0667
TCC: count=1, rel_freq=0.0667
CCC: count=1, rel_freq=0.0667
CCA: count=1, rel_freq=0.0667
CAA: count=1, rel_freq=0.0667
AAT: count=1, rel freq=0.0667
ATC: count=1, rel_freq=0.0667
TCT: count=1, rel_freq=0.0667
CTG: count=1, rel freq=0.0667
GTT: count=1, rel_freq=0.0667
```

