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Class- MSc CS – I

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Subject – Bioinformatics

Topic – Motif Finding

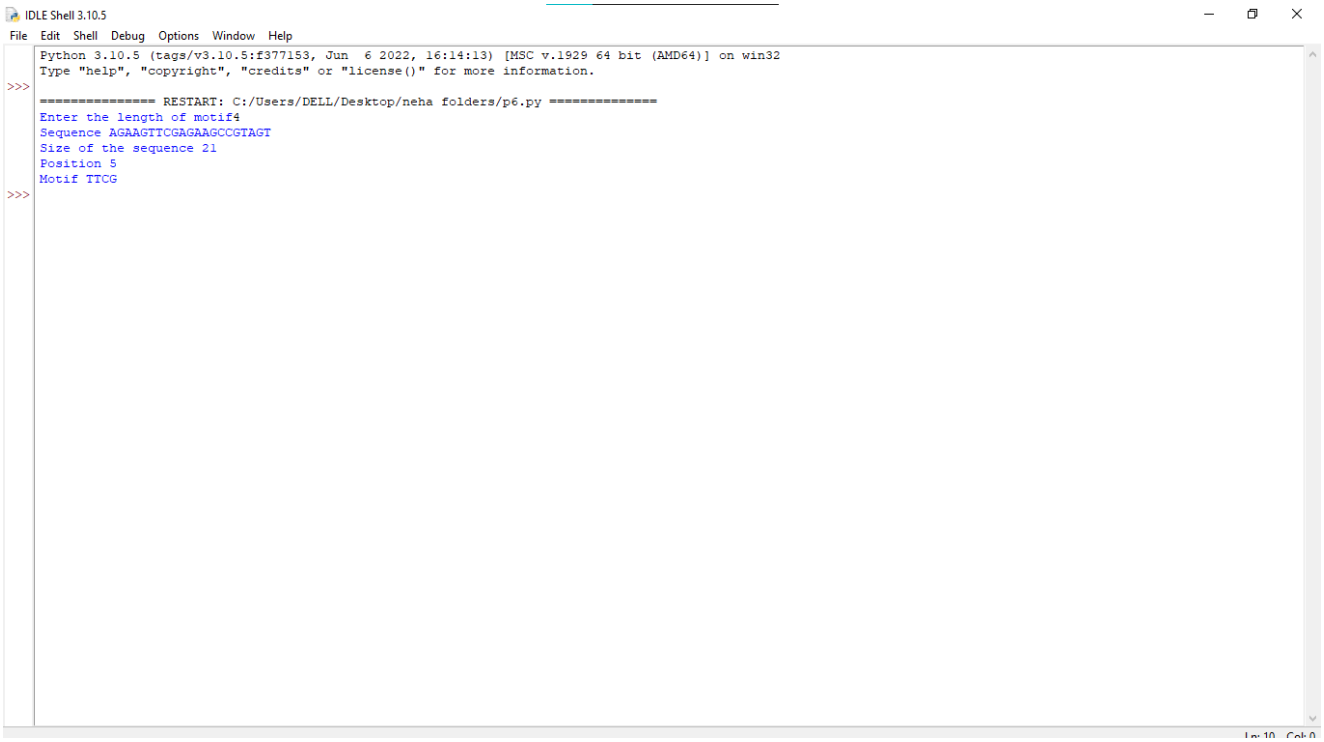
Practical No: 6

Aim: Write a Python/Java code to find motif in a given sequence.

Code:

```
import random
l=int(input("Enter the length of motif"))
file=open("mot.txt","r")
r=file.read()
print("Sequence",r)
size=len(r)
print("Size of the sequence",size)
pos=random.randint(0,len(r)-5)
#pos=1
print("Position",pos)
motif=r[pos:pos+l]
print("Motif",motif)
i=pos+1
while(i<=size-1):
   if(motif==r[i:i+1]):
      str1=r[i:i+1]
      print("Match motif",str1)
      file1=open("motoutput.txt","a")
      file1.write(str1+" ")
   i+=1
```

Output:


IDLE Shell 3.10.5
File Edit Shell Debug Options Window Help
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/p6.py ==========
Enter the length of motif4
Sequence AGAAGTTCGAGAAGCCGTAGT
Size of the sequence 21
Position 5
Motif TTCG
>>>
Ln: 10 Col: 0