Name: Neha Kanojiya

Class- MSc CS - I

**Roll No.- 536** 

**Subject – Bioinformatics** 

Topic – Fingerprint

## **Practical No: 9**

**Aim:** Enter six protein sequence of different organism and write a program to find a fingerprint of sequence.

## **Code:**

```
def solve_fingerprint(seq_list, no_of_col):
  seq dict=dict()
  for colnum in range(no of col):
    counta,countc,countt,countg=0,0,0,0
    for colseq in seq_list:
      if colseq[colnum]=='A':
         counta+=1
      elif colseq[colnum]=='T':
         countt+=1
      elif colseg[colnum]=='C':
         countc+=1
      elif colseq[colnum]=='G':
         countg+=1
    seq_dict[colnum]=[counta,countc,countt,countg]
  display results(seq dict)
def display results(seq dict):
  print("\tA \tC \tT \tG")
  for key in seq dict:
    print("\n",*seq_dict[key],sep="\t")
no_of_seq=int(input("Enter the number of sequence: "))
print("Enter all the sequences")
seq_list=[]
for _ in range(no_of_seq):
  seq list.append(list(map(str, input("").split())))
solve_fingerprint(seq_list,len(seq_list[0]))
```

## **Output:**

Ln: 26 Col: 0