NAME: ASIF ERFAN KHAN

ROLL NUMBER: 546

COURSE: MSc CS

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.

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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 colseq[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]))

OUPUT: