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ROLL NUMBER: 546

COURSE: MSc CS

SUBJECT: BIOINFORMATICS

TOPIC: REGULAR

EXPRESSION

Practical No: 8

Aim: Generate a regular expression enter three protein sequence of three different organism. Write Python/Java code to find regular expression for these sequences.

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Code:
def gen_reg_exp(seq_list, no_of_col):
  final_list=[]
  for colnum in range(no_of_col):
    collist=[]
    for colseq in seq_list:
       collist.append(colseq[colnum])
    if len(set(collist))==len(collist):
       #print(final_list)
       final_list.append('x')
    else:
       if len(set(collist))==1:
         final_list.append(collist[0])
       else:
         final_list.append(".join(set(collist)))
         display_output(final_list)
def display_output(final_list):
  print(*final_list, sep='-')
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())))
  gen_reg_exp(seq_list, len(seq_list[0]))
OUPUT:
```

