Name:Mohiuddin Mondal Roll no.001910501043 Class: BCSE II Sem:First Session 2020-21

Assignment Set: 1 **Problem No.** 3

Problem Statement: Take a four-digit prime number P. Generate a series of large integers L and for each member Li compute the remainder Riafter dividing LibyP. Tabulate LiandRi. Repeat for seven other four digit prime numbers keeping Li fixed.

Solution Approach:

Random 4 digit prime numbers are choosen (2153,3319,4909,5849,6197,7841,1459). Large numbers are generated using random number generator, then table is printed.

Structured Pseudocode:

Results:

```
zulfiqar@zulqarnain:~/assignmentGit/secondYear/DSAAssignment/assignment1$ ./a.out

Large Num ↓ prime → 2153 3319 4909 5849 6197 7841 1459
9117464126333722114 309 858 377 2833 3784 3798 692
8306495617639080772 1222 2232 1592 1630 5949 1503 951
3741547206935640503 96 1782 1281 5249 1545 7802 335
2055777158083943769 287 58 3775 2501 3380 6422 835
2055777158083943769 287 58 358 1422 311 3006 1227
58746952059519366946 740 2089 1409 2912 332 2529 1324
7609779842652181569 909 162 2315 5093 3809 151 1362
7609779842652181569 909 162 2315 5093 3809 151 1362
7609779842652181569 909 1674 78 651 1868 2069 5310 413
8310928709342757922 2125 1418 1480 4239 4408 3182 585
7453009679264943318 916 2307 81 3064 438 7231 370
zulfiqar@zulqarnain:~/assignmentGit/secondYear/DSAAssignment/assignment1$
```

Separate files containing commented source code:

source code assignment7.c is attached.