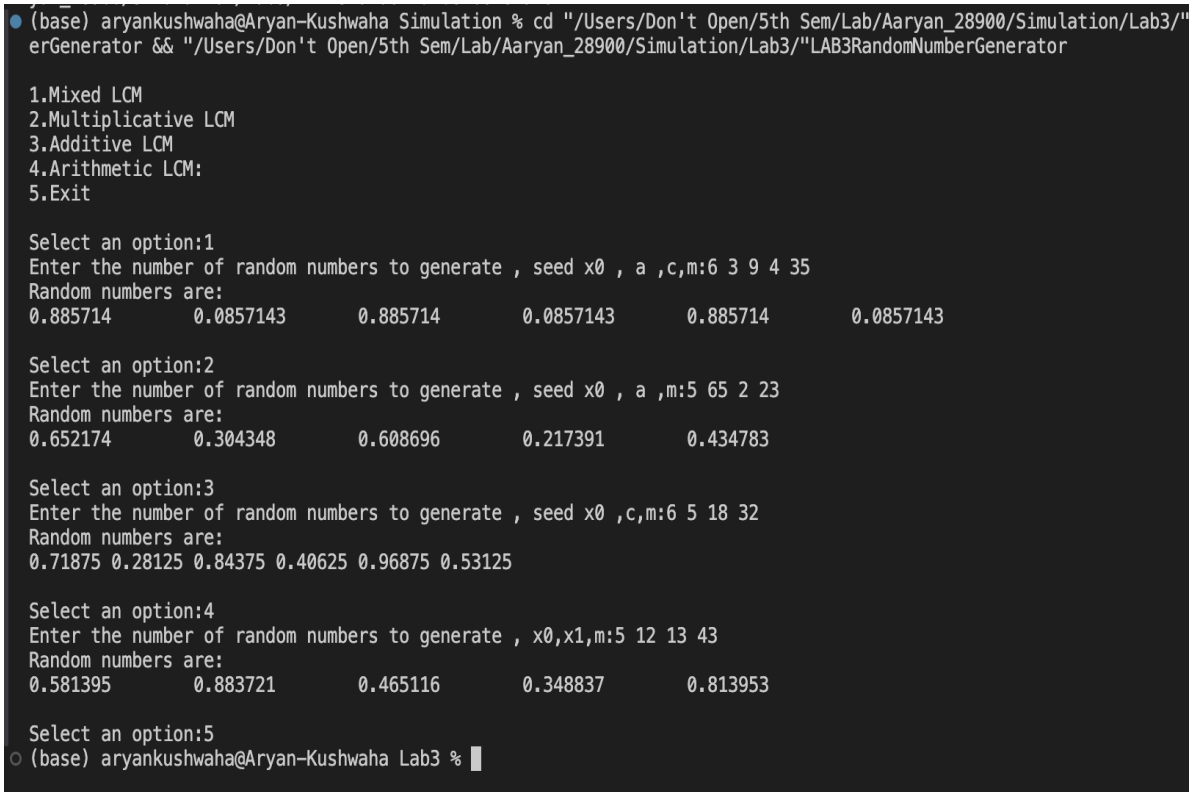
Output:-

Linear Congruential Method:



Output:

Electricity Simulation on System:

```
(base) aryankushwaha@Aryan-Kushwaha Simulation % cd "/Users/Don't Open/5th Sem/L
b4/" && g++ LAB4KCL-mathematical-dynamic-model.cpp -o LAB4K
CL-mathematical-dynamic-model && "/Users/Don't Open/5th Sem/Lab/Aaryan_28900/Sim
tical-dynamic-model

Input three resistances values: 150 200 240

Input voltage : 280

i: 4.43333      i1: 1.86667     i2: 1.4 i3: 1.16667     eqi4.43333
i: 4.44917      i1: 1.87333     i2: 1.405       i3: 1.17083     eqi4.44917
i: 4.465        i1: 1.88        i2: 1.41        i3: 1.175       eqi4.465
i: 4.48083      i1: 1.88667     i2: 1.415       i3: 1.17917     eqi4.48083
i: 4.49667      i1: 1.89333     i2: 1.42        i3: 1.18333     eqi4.49667%
```

Graph of Mathematical Dynamic Model (Krichoff's Law)

kirch22211

Total	Computer	Lighting	Refrigerator
4.433333	1.866667	1.400000	1.166667
4.449166	1.873333	1.405000	1.170833
4.465000	1.880000	1.410000	1.175000
4.480834	1.886667	1.415000	1.179167
4.496666	1.893333	1.420000	1.183333