

## **Readme file**

### **OS\_Programming\_Assignment\_2:page\_replacement\_simulator**

Files included in this folder is:

- 1) vmsim.cpp      (virtual memory simulator)
- 2) vmgen.cpp      (virtual memory generator)
- 3) vmstats.cpp    (virtual memory statistics)

Procedure:

1. Compile all Files using following commands

```
g++ vmgen.cpp -o vmgen
g++ vmstats.cpp -o vmstats
g++ vmsim.cpp -o vmsim
```

2. Run vmgen.cpp file to generate vmrefs.dat file (which contains sequence of integer)

By using following command

`./vmgen 10 200 vmrefs.dat` (without quotes)

3. It generate file name vmrefs.dat having desired length of integer sequence which indicate page index/page number which is randomly selected from 0 and (range-1)

4. Then run vmsim.cpp file for simulation using following command

`./vmsim 5 vmrefs.dat lru/fifo/opt` (without quotes and choose one from lru fifo or opt)

5. Then run vmstats.cpp file using following command

`./vmstats 5 40 10 vmrefs.dat` (without quotes)