**Paginig Code:**

#include <bits/stdc++.h>

using namespace std;

int main(int argc, char \*\*argv)

{

int processSize, pageSize, mainSize;

cout<<"Size of a process: ";

cin>>processSize;

cout<<"Page Size: ";

cin>>pageSize;

cout<<"Size of phy memory: ";

cin>>mainSize;

cout<<"Total no. of frames in memory: "<< (20+log2(mainSize))-log2(pageSize)<<endl;

cout<<"Num of entries in page table: "<< pow(2,(10+log2(processSize))-log2(pageSize))<<endl;

cout<<"No of bits in physical address: "<< 20+log2(mainSize)<<endl;

cout<<"No. of bits in logical address: "<< 10+log2(processSize)<<endl;

int n = (10+log2(processSize))-log2(pageSize)+1;

int pageTable[n][3];

for(int i=0; i<n; i++) {

cout<<"Page entry "<<i<<endl;

cout<<"Page no.: ";

cin>>pageTable[i][0];

cout<<"Frame no. ";

cin>>pageTable[i][1];

cout<<"Valid bit: ";

cin>>pageTable[i][2];

}

int logadd;

cout<<"Enter logical address: ";

cin>>logadd;

string log = to\_string(logadd);

int page = stoi(log.substr(0,(10+log2(processSize))-log2(pageSize)));

if(pageTable[page][2]==1)

cout<<"Present";

else cout<<"Not present";

return 0;

}

**Output:**

Size of a process: 1

Page Size: 512

Size of phy memory: 1

Total no. of frames in memory: 11

Num of entries in page table: 2

No of bits in physical address: 20

No. of bits in logical address: 10

Page entry 0

Page no.: 0

Frame no. 4

Valid bit: 1

Page entry 1

Page no.: 1

Frame no. 5

Valid bit: 1

Enter logical address: 1029372820

present