**PseudoCode of Problem 8**

**public** **class problem 8**

{

//Creating two virtual machines in private class of Vm

Vm[] vm = **new** Vm[1];

**for**(**int** i=0;i<1;i++){

vm[i] = **new** Vm(idShift + i, userId, mips, pesNumber, ram, bw, size, vmm, **new** CloudletSchedulerTimeShared());

list.add(vm[i]);

**}**

//creating 10 cloudlets in private class of cloudlets

Cloudlet[] cloudlet = **new** Cloudlet[10];

**for**(**int** i=0;i<10;i++)

{

cloudlet[i] = **new** Cloudlet(id, length, pesNumber, fileSize, outputSize, utilizationModel, utilizationModel, utilizationModel);

i++;

cloudlet[i].setUserId(userId);

list.add(cloudlet[i]);

}

//load the network topology file

**NetworkTopology.*buildNetworkTopology*("C:\Users\vaibhav\Desktop\Cloud experiments 5 th sem\cloudsim 3.0.3\ bin\org\ cloudbus\cloudsim\ examples\network\topology.brite");**

**NetworkTopology.*mapNode*(datacenter0.getId(),briteNode);**

Main()

{

//creating data ceneter and datacentre broker

Datacenter datacenter0 = *createDatacenter*("Datacenter\_0");

DatacenterBroker broker = *createBroker*("Broker\_0");

**int** brokerId = broker.getId();

*vmlist* = *createVM*(brokerId, 1, 100); //creating 1 vms

*cloudletList* = *createCloudlet*(brokerId, 10, 100); // creating 10 cloudlets

steps needed to create a PowerDatacenter:

//private class of datacentre

{

List<Host> hostList = **new** ArrayList<Host>();

//add Pe list to data centers so both virtual machines gets the successful status

peList1.add(**new** Pe(0, **new** PeProvisionerSimple(mips)));

**private** **static** **void** printCloudletList

**{**

Log.*printLine*("Cloudlet ID" + indent + "STATUS" + indent +"Data center ID" + indent + "VM ID" + indent + indent + "Time" + indent + "Start Time" + indent + "Finish Time");

Log.*printLine*( indent + indent + cloudlet.getResourceId() + indent + indent + indent + cloudlet.getVmId() + indent + indent + indent + dft.format(cloudlet.getActualCPUTime()) + indent + indent + dft.format(cloudlet.getExecStartTime())+ indent + indent + indent + dft.format(cloudlet.getFinishTime()));

**}**