Exp No: 7

CLOUD SIMULATION MODEL CLOUD ENVIRONMENT USING CLOUD SIM

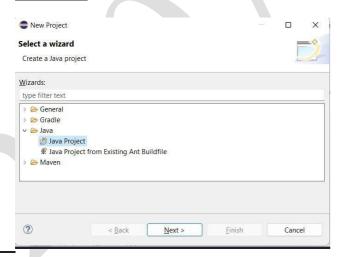
AIM:

To model the cloud environment using cloud sim tools.

PROCEDURE:

- 1. Now within the Eclipse window navigate the menu: File -> New -> Project, to open the new project wizard.
- 2. Select the 'Java Project' from the window popup and click Next.
- 3. Unselect the Use default location option and then click on *'Browse'* to open the path where you have unzipped the Cloudsim project and finally click Next to set project settings.
- 4. Now select the example program from folder examples from the unzipped folder.
- 5. Run the sample program

OUTPUT:



NAME: JOSHITA UMANATH

```
☑ CloudSimExample1.iava ×
     1 package org.cloudbus.cloudsim.examples;
2
4* * Title: CloudSim Toolkit
    11
12*import java.text.DecimalFormat;
    38 * A simple example showing how to create a <u>datacenter</u> with one host and run one 39 * <u>cloudlet</u> on it.
   39 * cloudlet on it.
40 */
41 public class CloudSimExample1 {
42
43    /** The cloudlet list. */
44    private static List<Cloudlet
45
6    /** The vmlist. */
47    private static List<Vm> vmli
48
                   /** The cloudlet list. */
private static List<Cloudlet> cloudletList;
                   /** The vmlist. */
private static List<Vm> vmList;
                   /**

* Creates main() to run this example.
    48

49°

50

51

52

53

54°

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73
                     * @param args the args
                   public static void main(String[] args) {
                          Log.printLine("Starting CloudSimExample1...");
                          try {
   // First step: Initialize the CloudSim package. It should be called
   // before creating any entities.
   int num_user = 1; // number of cloud users
   Calendar calendar = Calendar.getInstance();
   boolean trace_flag = false; // mean trace events
                                    // Initialize the CloudSim library
CloudSim.init(num_user, calendar, trace_flag);
                                    // Second step: Create <u>Datacenters</u>
// <u>Datacenters</u> are the resource providers in CloudSim. We need at // list one of them to run a CloudSim simulation
Datacenter datacenter0 = createDatacenter("Datacenter_0");
                                     // Third step: Create Broker
```

```
| Dictional problems | Sundace | Declaration | Console |
```

RESULT:

Thus, the cloud environment using cloud sim tools has been modelled.