**BCIS 5120**

**Lab1**

**Gantt Chart & Network Diagram**

**A project has been defined to contain the following activities along with their required times for completion.**

|  |  |  |  |
| --- | --- | --- | --- |
| Activity No. | Activity | Required Time (Week) | Immediate Predecessors |
| 1 | Collect requirements | 3 |  |
| 2 | Analyze processes | 2 | 1 |
| 3 | Analyze data | 2 | 2 |
| 4 | Design processes | 6 | 2 |
| 5 | Design data | 3 | 3 |
| 6 | Design screens | 2 | 3,4 |
| 7 | Design reports | 4 | 4,5 |
| 8 | Program | 5 | 6,7 |
| 9 | Test and Document | 7 | 7 |
| 10 | Install | 2 | 8,9 |

**Use MS Project to complete the following tasks:**

**MS Project Tutorial:** [**https://www.youtube.com/watch?v=8I2u5YTEQ0c**](https://www.youtube.com/watch?v=8I2u5YTEQ0c)

1. **Enter the above activities in MS Project and create a Work Breakdown Structure.**
2. **Create a Gantt Chart for the activities.**
3. **Create a Network Diagram for the activities.**

Make sure your diagram is activity on node (AON) and includes all nodes and required time

1. **Answer the following questions about project completion time:** 
   1. What is the earliest expected completion time of the project?
   2. If Activity 6 is revised to take 6 weeks, how would that affect i) the critical path, and ii) the expected completion time?