# LAB REPORT

# Software Project Management

**Student Name: …..**

**ID: …..**

**Class:…….**

**Course: 2022-2023**

# Contents

# Module 1:

## Exercise 1: Creating a link

| | ⓘ | Task Name | Duration | Start | Finish | Predecessors |
|---|---|---|---|---|---|---|
| 1 | ▦ | Research destinations | 2 days | Mon 5/5/08 | Tue 5/6/08 | |
| 2 | ▦ | book fights | 1 day | Wed 5/7/08 | Wed 5/7/08 | 1 |
| 3 | ▦ | prepare and pack | 5 days | Thu 5/8/08 | Wed 5/14/08 | 2 |
| 4 | ▦ | fly out | 1 day | Thu 5/15/08 | Thu 5/15/08 | 3 |
| 5 | ▦ | relax in the sun | 7 days | Fri 5/16/08 | Mon 5/26/08 | 4 |
| 6 | ▦ | fly home | 1 day | Tue 5/27/08 | Tue 5/27/08 | 5 |
| 7 | ▦ | peel | 7 days | Mon 5/5/08 | Tue 5/13/08 | |
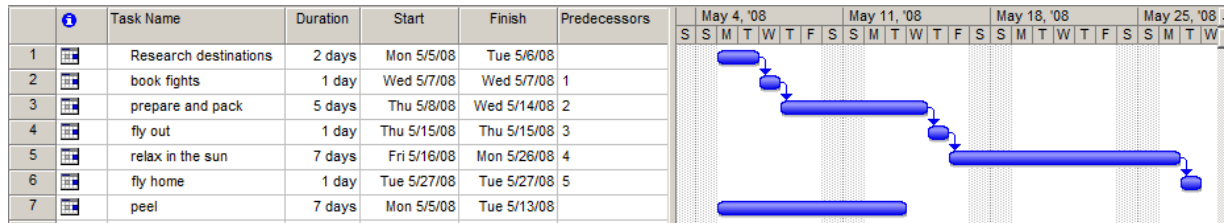
## Exercise 2: Setting duration

| | ⓘ | Task Name | Duration | Start | Finish | Predec |
|---|---|---|---|---|---|---|
| 1 | | build a pyramid | 1 day? | Wed 9/16/15 | Wed 9/16/15 | |
| 2 | | Acquire stone | 1 day? | Wed 9/16/15 | Wed 9/16/15 | |
| 3 | | Quarry stone | 3 wks | Wed 9/16/15 | Tue 10/6/15 | |
| 4 | | Transport stone | 5 days | Wed 10/7/15 | Tue 10/13/15 | 3 |
| 5 | | prepare stone | 3 wks | Wed 10/14/15 | Tue 11/3/15 | 4 |
| 6 | | prepare site | 1 day? | Wed 9/16/15 | Wed 9/16/15 | |
| 7 | | dig foundations | 3 wks | Wed 9/16/15 | Tue 10/6/15 | |
| 8 | | fill foundations | 2 wks | Wed 11/4/15 | Tue 11/17/15 | 5,7 |
| 9 | | level ground | 1 wk | Wed 11/18/15 | Tue 11/24/15 | 8 |
| 10 | | measure site | 7 days | Wed 11/25/15 | Thu 12/3/15 | 9 |
| 11 | | mark out site | 7 days | Fri 12/4/15 | Mon 12/14/15 | 10 |
| 12 | | build | 6 mons | Wed 11/4/15 | Tue 4/19/16 | 2,5 |

## Exercise 3: Creating phases

| | ⓘ | Task Name | Duration | Start | Finish | Predecessors | Res |
|---|---|---|---|---|---|---|---|
| 1 | | Pre-heat oven | 5 mins | Wed 9/16/15 | Wed 9/16/15 | | |
| 2 | | prepare meat | 5 mins | Wed 9/16/15 | Wed 9/16/15 | 1 | |
| 3 | | prepare veg | 5 mins | Wed 9/16/15 | Wed 9/16/15 | | |
| 4 | | heat pan | 5 mins | Wed 9/16/15 | Wed 9/16/15 | | |
| 5 | | brown meat | 5 mins | Wed 9/16/15 | Wed 9/16/15 | 2,4 | |
| 6 | | fry veg | 5 mins | Wed 9/16/15 | Wed 9/16/15 | 3,5 | |
| 7 | | ad stock and bring to a sim | 5 mins | Wed 9/16/15 | Wed 9/16/15 | 6 | |
| 8 | | cook in oven | 45 mins | Wed 9/16/15 | Wed 9/16/15 | 7 | |
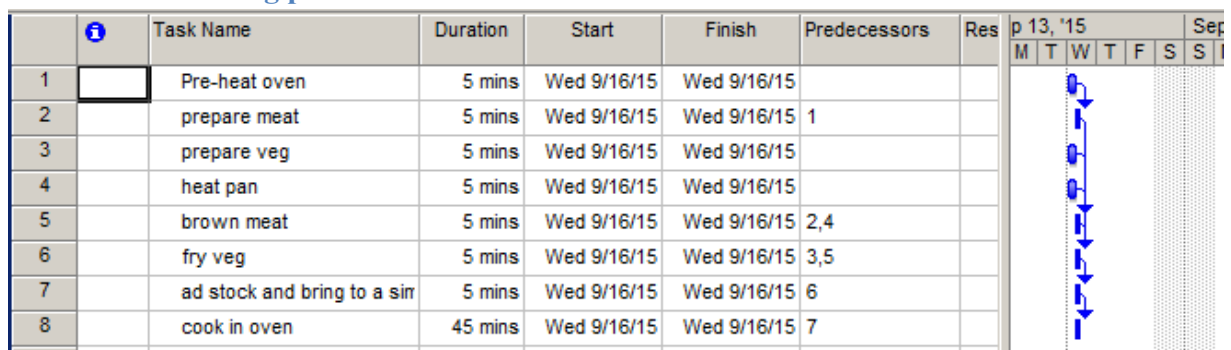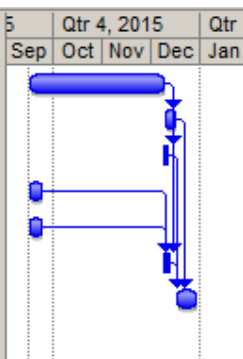
## Exercise 4: planning to do one of the HCM to Nha Trang bike rides

| | Task Name | Duration | Start | Finish | Predece |
|---|---|---|---|---|---|
| 1 | ⊟ Công việc hậu cần | 36 days | Sun 9/20/15 | Fri 11/6/15 | |
| 2 | Thống kê số người | 3 days | Sun 9/20/15 | Tue 9/22/15 | |
| 3 | Chuẩn bị thực đơn thức ăn | 14 days | Wed 9/23/15 | Mon 10/12/15 | 2 |
| 4 | chuẩn bị nước uống | 3 days | Tue 10/13/15 | Thu 10/15/15 | 2 |
| 5 | chuẩn bị các vật dụng y tế | 7 days | Fri 10/16/15 | Mon 10/26/15 | |
| 6 | đặt phòng khách sạn | 2 days | Tue 10/27/15 | Wed 10/28/15 | 2 |
| 7 | chuẩn bị các thiết bị thay thế | 7 days | Thu 10/29/15 | Fri 11/6/15 | |
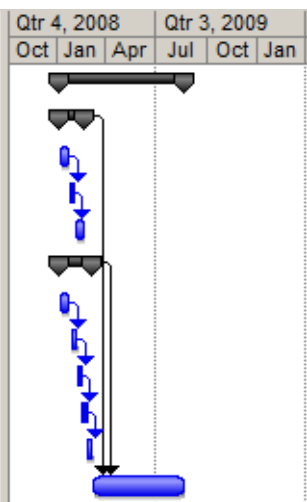
## Exercise 5: Noah - Linking

| | ⓘ | Task Name | Duration | Start | Finish | Predecessors |
|---|---|---|---|---|---|---|
| 1 | | Build boat | 3 mons | Wed 9/16/15 | Tue 12/8/15 | |
| 2 | | load supplies | 5 days | Wed 12/9/15 | Tue 12/15/15 | 1 |
| 3 | | load family | 1 day | Wed 12/9/15 | Wed 12/9/15 | 1 |
| 4 | | collect animals A-M | 7 days | Wed 9/16/15 | Thu 9/24/15 | |
| 5 | | collect animals N-Z | 7 days | Wed 9/16/15 | Thu 9/24/15 | |
| 6 | | load animals | 3 days | Wed 12/9/15 | Fri 12/11/15 | 1,4,5 |
| 7 | | float around | 10 days | Wed 12/16/15 | Tue 12/29/15 | 2,3,6 |

## Exercise 6: Pyramid - Multi level grouping

| | ⓘ | Task Name | Duration | Start | Finish | Predece |
|---|---|---|---|---|---|---|
| 1 | | ⊟ Build a pyramid | 164 days | Mon 1/5/09 | Thu 8/20/09 | |
| 2 | | ⊟ Acquire stone | 35 days | Mon 1/5/09 | Fri 2/20/09 | |
| 3 | ▦ | Quarry stone | 3 wks | Mon 1/5/09 | Fri 1/23/09 | |
| 4 | | Transport stone | 5 days | Mon 1/26/09 | Fri 1/30/09 | 3 |
| 5 | | prepare stone | 3 wks | Mon 2/2/09 | Fri 2/20/09 | 4 |
| 6 | | ⊟ prepare site | 44 days | Mon 1/5/09 | Thu 3/5/09 | |
| 7 | ▦ | dig foundations | 3 wks | Mon 1/5/09 | Fri 1/23/09 | |
| 8 | | fill foundations | 2 wks | Mon 1/26/09 | Fri 2/6/09 | 7 |
| 9 | | level ground | 1 wk | Mon 2/9/09 | Fri 2/13/09 | 8 |
| 10 | | measure site | 7 days | Mon 2/16/09 | Tue 2/24/09 | 9 |
| 11 | | mark out site | 7 days | Wed 2/25/09 | Thu 3/5/09 | 10 |
| 12 | ▦ | build | 6 mons | Fri 3/6/09 | Thu 8/20/09 | 2,6 |

## Exercise 7: Creating a plan for Staff Training

| | ⓘ | Task Mode | Task Name | Duration | Start | Finish | Prede |
|---|---|---|---|---|---|---|---|
| 1 | | 📌 | choosing newbie | 1 mon | Wed 9/23/15 | Tue 10/20/15 | |
| 2 | | 📌 | ⊟ trainning | 23 days | Wed 10/21/15 | Fri 11/20/15 | 1 |
| 3 | | 📌 | basic concept | 3 days | Wed 10/21/15 | Fri 10/23/15 | |
| 4 | | 📌 | new technology | 14 days | Mon 10/26/15 | Thu 11/12/15 | 3 |
| 5 | | 📌 | applying | 6 days | Fri 11/13/15 | Fri 11/20/15 | 4 |
| 6 | | 📌 | testing | 3 days | Mon 11/23/15 | Wed 11/25/15 | 2 |
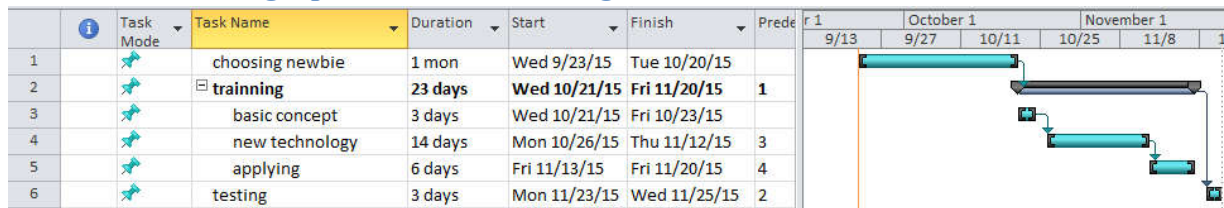
## Exercise 8: Recurring task

| | ⓘ | Task Mode | Task Name | Duration | Start | Finish | Predecessors | Res |
|---|---|---|---|---|---|---|---|---|
| 1 | 🔄 | 📌 | ⊞ Breakfast Meeting | 64 days | Mon 9/21/15 | Thu 12/17/15 | | |
| 3 | | 📌 | Requirment documents | 1 wk | Mon 9/21/15 | Fri 9/25/15 | | |
| 4 | | 📌 | design | 2 wks | Mon 9/28/15 | Fri 10/9/15 | 3 | |
| 5 | | 📌 | coding | 8 wks | Mon 10/12/15 | Fri 12/4/15 | 4 | |
| 6 | | 📌 | testing | 2 wks | Mon 12/7/15 | Fri 12/18/15 | 5 | |
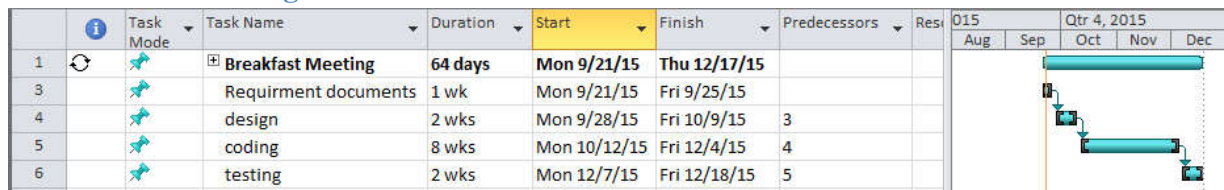
## Exercise 9: Travelling task calendar

| | Task Name | Duration | Start | Finish | Predecessors |
|---|---|---|---|---|---|
| 1 | book fight | 1 day | Wed 9/16/15 | Wed 9/16/15 | |
| 2 | prepare and pack | 2 days | Thu 9/17/15 | Fri 9/18/15 | 1 |
| 3 | fly to KL | 1 day | Mon 9/21/15 | Mon 9/21/15 | 2 |
| 4 | relax | 3 days | Tue 9/22/15 | Thu 9/24/15 | 3 |
| 5 | fly to Bangkok | 1 day | Fri 9/25/15 | Fri 9/25/15 | 4 |
| 6 | relax | 3 days | Mon 9/28/15 | Wed 9/30/15 | 5 |
| 7 | fly Home | 1 day | Thu 10/1/15 | Thu 10/1/15 | 6 |
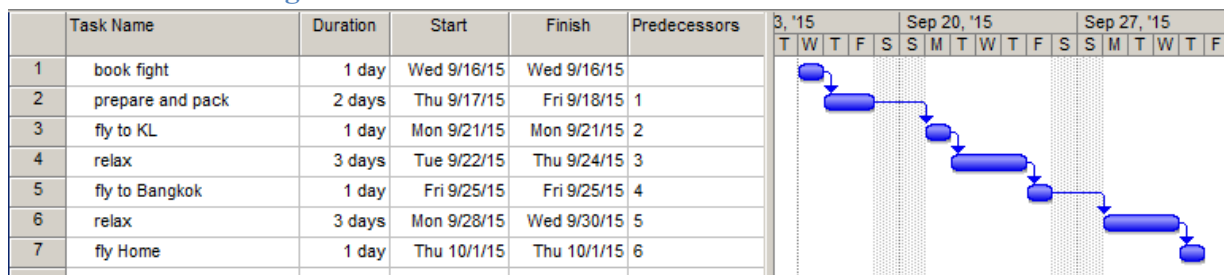
# Module 2: CALENDARS AND SCHEDULING

## Exercise 1: Changing Working Time

1) Santa's workshop has two machines for making toys - the first job of the year is to

prepare them for work.  Using the diagram below as a guide, create a list of tasks

to model this job.

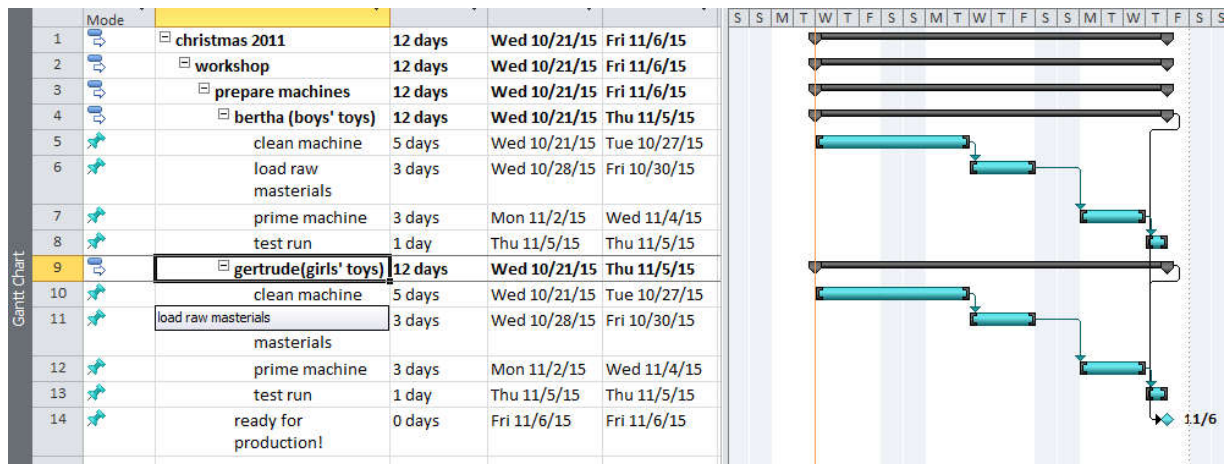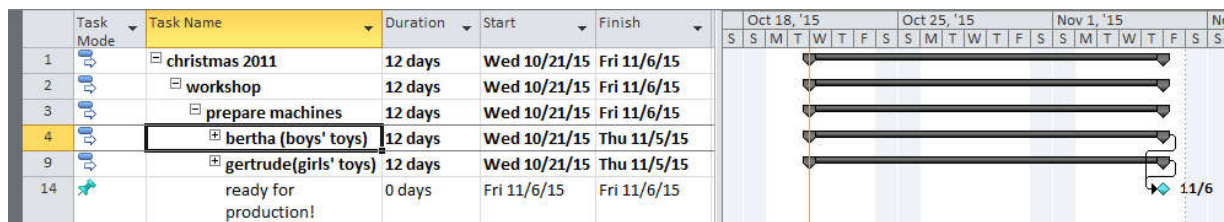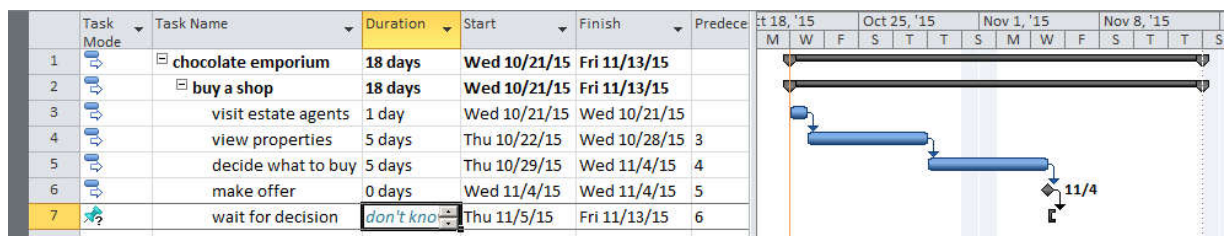| | Mode | | | | |
|---|---|---|---|---|---|
| 1 | | christmas 2011 | 12 days | Wed 10/21/15 | Fri 11/6/15 |
| 2 | | workshop | 12 days | Wed 10/21/15 | Fri 11/6/15 |
| 3 | | prepare machines | 12 days | Wed 10/21/15 | Fri 11/6/15 |
| 4 | | bertha (boys' toys) | 12 days | Wed 10/21/15 | Thu 11/5/15 |
| 5 | | clean machine | 5 days | Wed 10/21/15 | Tue 10/27/15 |
| 6 | | load raw masterials | 3 days | Wed 10/28/15 | Fri 10/30/15 |
| 7 | | prime machine | 3 days | Mon 11/2/15 | Wed 11/4/15 |
| 8 | | test run | 1 day | Thu 11/5/15 | Thu 11/5/15 |
| 9 | | gertrude(girls' toys) | 12 days | Wed 10/21/15 | Thu 11/5/15 |
| 10 | | clean machine | 5 days | Wed 10/21/15 | Tue 10/27/15 |
| 11 | | load raw masterials | 3 days | Wed 10/28/15 | Fri 10/30/15 |
| 12 | | prime machine | 3 days | Mon 11/2/15 | Wed 11/4/15 |
| 13 | | test run | 1 day | Thu 11/5/15 | Thu 11/5/15 |
| 14 | | ready for production! | 0 days | Fri 11/6/15 | Fri 11/6/15 |

2) Try collapsing some of the task groups to make sure you've got the indenting right.

| | Task Mode | Task Name | Duration | Start | Finish |
|---|---|---|---|---|---|
| 1 | | christmas 2011 | 12 days | Wed 10/21/15 | Fri 11/6/15 |
| 2 | | workshop | 12 days | Wed 10/21/15 | Fri 11/6/15 |
| 3 | | prepare machines | 12 days | Wed 10/21/15 | Fri 11/6/15 |
| 4 | | bertha (boys' toys) | 12 days | Wed 10/21/15 | Thu 11/5/15 |
| 9 | | gertrude(girls' toys) | 12 days | Wed 10/21/15 | Thu 11/5/15 |
| 14 | | ready for production! | 0 days | Fri 11/6/15 | Fri 11/6/15 |

## Exercise 2: Changing Working Time

1) Using the diagram below, create a list of tasks to model this process.

| | Task Mode | Task Name | Duration | Start | Finish | Predece |
|---|---|---|---|---|---|---|
| 1 | | chocolate emporium | 18 days | Wed 10/21/15 | Fri 11/13/15 | |
| 2 | | buy a shop | 18 days | Wed 10/21/15 | Fri 11/13/15 | |
| 3 | | visit estate agents | 1 day | Wed 10/21/15 | Wed 10/21/15 | |
| 4 | | view properties | 5 days | Thu 10/22/15 | Wed 10/28/15 | 3 |
| 5 | | decide what to buy | 5 days | Thu 10/29/15 | Wed 11/4/15 | 4 |
| 6 | | make offer | 0 days | Wed 11/4/15 | Wed 11/4/15 | 5 |
| 7 | | wait for decision | don't kno | Thu 11/5/15 | Fri 11/13/15 | 6 |

2) We decide to put in a rough estimate for how long we have to wait for a

decision.  Add a task to the list, as shown in the diagram below: