

Compare Instructions

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives



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- **Compare instructions**



System Requirements



System Requirements

- **Ubuntu Linux 18.04 OS**



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- **Ubuntu Linux 18.04 OS**
- **LDmicro**



System Requirements

- **Ubuntu Linux 18.04 OS**
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- **OpenPLC Mainboard**



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- **24V, 2A SMPS**



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- **Ubuntu Linux 18.04 OS**
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- **USBasp programmer**



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- **Ubuntu Linux 18.04 OS**
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- **Traffic Light module**



System Requirements

- **Ubuntu Linux 18.04 OS**
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- **24V, 2A SMPS**
- **USBasp programmer**
- **Traffic Light module**
- **Switchboard module**



Pre-requisites



Pre-requisites

- Working of Move (MOV) instruction



Pre-requisites

- Working of Move (MOV) instruction
- If not, please refer to the relevant tutorials in this series from <https://spoken-tutorial.org>



Prerequisites - Hardware setup



Compare instructions

Six types of compare instructions



Compare instructions

Six types of compare instructions

- equals



Compare instructions

Six types of compare instructions

- equals
- not equals



Compare instructions

Six types of compare instructions

- equals
- not equals
- less than



Compare instructions

Six types of compare instructions

- equals
- not equals
- less than
- less than or equal



Compare instructions

Six types of compare instructions

- equals
- not equals
- less than
- less than or equal
- greater than



Compare instructions

Six types of compare instructions

- equals
- not equals
- less than
- less than or equal
- greater than
- greater than or equal



Compare Instructions

- These instructions can be used to compare



Compare Instructions

- **These instructions can be used to compare**
 - **a variable to a variable**



Compare Instructions

- **These instructions can be used to compare**
 - a variable to a variable
 - a variable to a 16-bit signed constant



Compare Instructions

- **These instructions can be used to compare**
 - a variable to a variable
 - a variable to a 16-bit signed constant
- **Working of these instructions will be similar**



Summary

- **Compare instructions**



Assignment

- 1 Turn on a LED whenever the count process is ON
- 2 Turn off when count value becomes zero

Hint: Use greater than compare instruction to turn on the LED



About the Spoken Tutorial Project

- Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates to those who pass an online test
- For more details, please write to contact@spoken-tutorial.org



Forum questions

- Questions in THIS Spoken Tutorial?
- Visit <https://forums.spoken-tutorial.org/>
- Choose the minute and second where you have the question
- Explain your question briefly
- The Spoken Tutorial project will ensure an answer

You will have to register to ask questions



Forum for specific questions

- Questions not related to the Spoken Tutorial?
- Do you have general / technical questions on the Software?
- Please visit the FOSSEE Forum
<https://forums.fossee.in/>
- Choose the Software and post your question



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THANK YOU!

For more Information, visit our website
<https://fossee.in/>

