


RESTAURANT ASSISTANT: ORDER TAKING ROBOT

e-Yantra has designed a theme, **Order Taking Robot**, in which we explore automating a basic task – taking orders from customer tables and giving them to the cooks. Theme represents a simplified abstraction of a restaurant having nine (09) customer tables serving three (03) different types of food such as Indian, Chinese and Italian. Each type of food has an associated cooking zone. Food types are represented by flags of different colors and placement positions. Customer places his/her order choosing any of the three food types by placing the corresponding flag on the table. Robot traverses through the arena visiting each customer table and identifies the order placed by the customer, travels to the cooking zone to inform the cooks about the types of food ordered by customers.

The robot has to do the following:

- (i) Take the order from each table.
- (ii) Place the orders at their respective cooking zones and
- (iii) Display the table numbers and the respective type of food ordered, on the LCD.



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Press **F11** to exit full screen

Team Profile

- We will be issuing Completion certificates to the teams.
- These certificates will be issued in favour of the team member names mentioned here.
- In case there is a spelling mistake, please send us an e-mail to support@e-yantra.org along with your corrected name and team details.

Your college name: PSCMR College of Engineering and Technology, Vijaywada, Andhra Pradesh

Name On Certificate	Email	Contact	Designation	Department
S Pradeep kumar	satpradeep@gmail.com	9951147258	Assistant Professor	Electronics and Communication Engineering
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Above mentioned names are verified by the Team Leader!

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Task 0 - NOC

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Task 2

Task 3

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Task 5

Task 6

newTBT Challenge

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Task 2: Video Submission

Due on 12th August

The deadline for Task Submission of Task Based Training: Challenge is over.

This is your second task in **Task Based Training: Challenge TBT: Challenge**. It is time to devise a solution to the problem statement described in the rulebook for the **Theme**.

This Task consists of two parts:

- Video Submission:** Upload a demonstration video of your solution on the portal.
- Code Submission:** Upload the final project folder containing your well commented C code along with other supporting files.

Steps Involved:

- Refer to the **Read_me** file after you download the task contents.
- Setup the arena as per the configuration given in **"Instructions.pdf"**.
- Refer to the instructions mentioned in the **Read_me** file to shoot a continuous one shot video of the robot performing the task.
- Upload the video on Youtube and submit the link on our portal.
- Organize your final C code and add appropriate comments to ensure readability.
- Save your complete project folder (it should include .C file, hex file and other supporting files) in **.zip** format.
- Upload the zip file on our portal.

Note: Your submitted code will be checked for a generic solution i.e. the code should work even if the positions of the plants are changed in the arena.

[Download Task 2 Content!](#)

When you want to know how things really work, study them when they're coming apart."
— William Gibson

Your submitted Video is displayed below

Your uploaded zip file for Task 2 can be downloaded from [here](#). Upload date and time: 2016-08-12 22:47:35

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Youtube Link TBT-2016 Challenge “ **RESTAURANT ASSISTANT: ORDER TAKING ROBOT**”

https://www.youtube.com/watch?v=d__ZUyToShY&feature=youtu.be