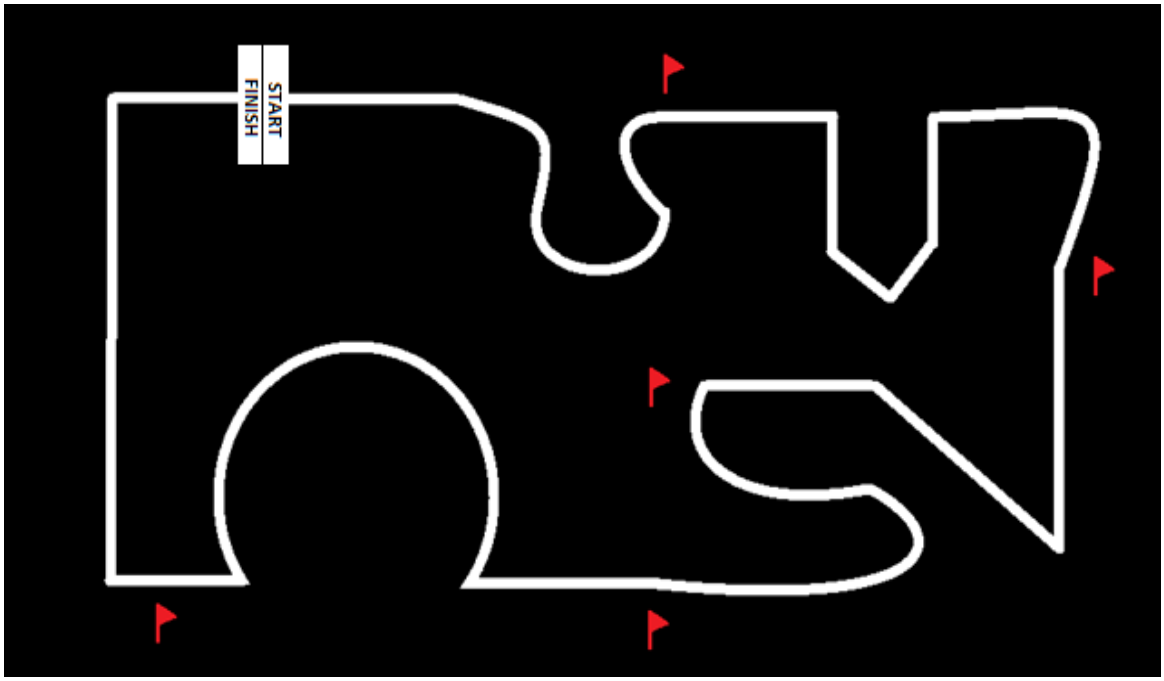
Enchanted Maze

PROBLEM STATEMENT:

Build an autonomous robot which can follow white line in black surface.

ARENA:

- A sample arena is given below.
- There will be 5 checkpoints in a lap as marked by red flags.
- The width of white line will be 3cm.



GAMEPLAY:

- There will be two rounds.
- In first round autonomous robot has to complete one lap and it has to stop.
- In the second round the bot has to complete 3 laps and then it has to stop within 10cm of the finish line.

RULES:

- A maximum no of 4 participants are allowed in a team.
- The team will be provided 220V, 50Hz standard AC supply.
- Participants should bring any other power supply required for their robots.
- Maximum operating voltage is 12V
- Top 6 teams will go to the final round.
- Lego kits or any pre-made spare parts are not allowed.
- Teams cannot touch their robots during run.
- In 1st round 3 runs will be given to each team and best score among those will be considered.

- Maximum 3 restarts will be available for each run. No penalty will be given for the restarts but the time will **not** be set to zero.
- Maximum time limit for 1st round is 5mins and second round is 20mins.
- The decision of the coordinator will be the final decision.

BOT SPECIFICATION:

- The bot must fit in a box of 25cm*25cm*25cm box.

SCORING:

- Each checkpoint = 100 points.
- In second round: Lap completion=200 points.
- In both round total score = Total points-time (in seconds) taken for completing the task.

Prizes worth Rs 4000 will be given to winner and 1000 will be given to Runner up. Participation certificates will be given to all participants at end of event.

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