KIDZOBOT Challenge

KIDZOBOT Presentation:

KIDZOBOT is a smart robot, can be programmed and controlled by a Smart Phone or a tablet .this represents a new educational tool, can be used with fun in order to facilitate learning process for the children, making a good use of the smart devices.

This new modern activity allows children to acquire several skills simultaneously: learning the basics of programming to control robots, learning their lessons while having fun; Development of intelligence skills, it is simply an educational game.

The project consists essentially of three parts:

-A mobile robot:

-An application:

The **KIDZOBOT app** is designed for the Android system to control and program the robot using Bluetooth, the application is easy to use and do not contain codes, it use the graphical interface GUI
It contains tow (02) programming modes

1-Direct mode to control the robot remotely

2-Programming mode </>

When one of the buttons shown in the table is pressed, the sequential programming commands sent and stored step-by-step to the robot.
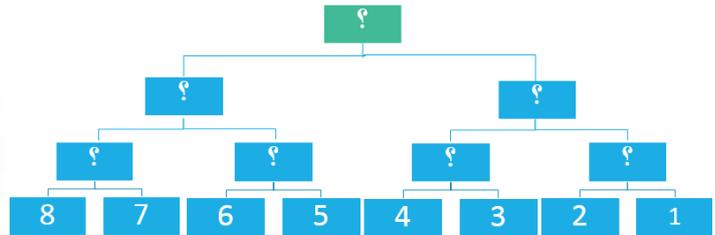

Picture	Description
⬆	move the robot one step forward
⬇	move the robot one step backward
➡	Turn the robot 90 degrees right
⬅	Turn the robot 90 degrees left
🕐	wait 1 second
🔃	reset all program
◀	play all stored program in the robot

-**Activity cards:** The robot moves on different activity cards according to the course we want to teach the children: math, shapes, colors, letters ... Etc

Presentation of the competition:

       KIDZOBOT Challenge is a competition between two robots
The teams are required to program their robot step by step to reach the goal.
The winner is the one who first reaches the required square
There are **three 3 levels** according to each stage announced during the competition

Robot of challenge:
• All teams registered in the Challenge use the KIDZOBOT Robot. The robot it will be provided to the participants during the competition

Workshop:
       A workshop will be presented to all registered teams to explaining how to use KIDZOBOT Robots , and all participants will training with the use of KIDZOBOT robots before the competition