



Lesson 1 – Why Learn Coding





Note for Faculty

1. Teaching Coding is not the aim of this lesson. Its aim is purely to motivate children to the exciting world of Coding.
2. Since **coding is the base for Robotics & Automation**, motivating children to Robotics will not only be exciting, but most productive.
3. Contents of this lesson is just one suggested method. Faculties can find their **own innovations** of doing so.
4. We shall start with two simple **Motivational Codes**.
5. Faculty should try and **make this and all subsequent lessons interactive**. These presentations have been made keeping this in mind. Slides will prompt you to do so.



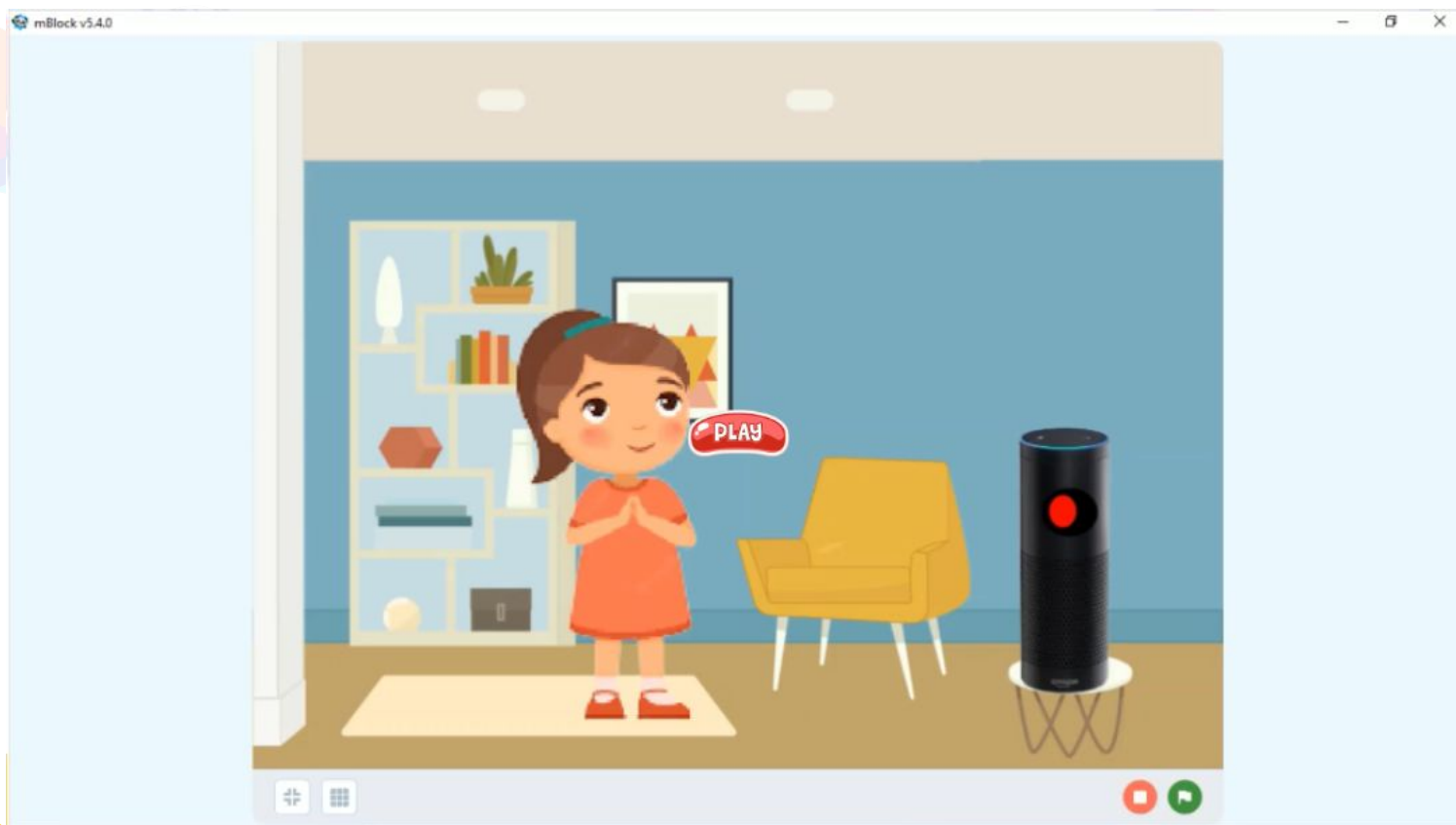
**You all know Alexa, but Do you know how
she works**

Want to Make your Own Alexa ?



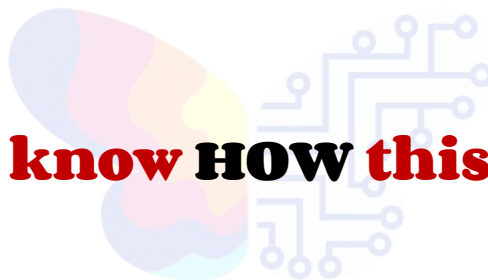


Video of Alexa





Do you know **HOW this was made?**





Through CODING





Want to learn CODING ?



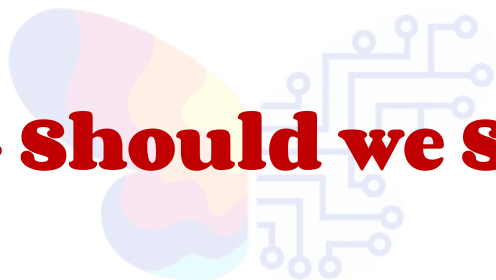


Yes!!! We Want to Learn





So - Should we Start





Ok - Let us Start

This is a Sprite



It has
Ears
Eyes
Mouth
Legs & more....



This is a Robot



**It also has
Ears
Eyes
Mouth
Legs & more....**

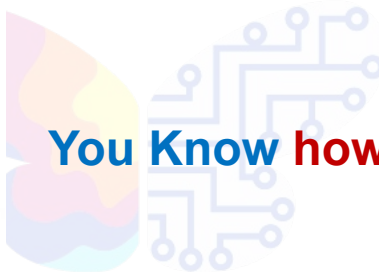




Both Can work for us



Provided - THEY ARE CODED



You Know how this phone Works?





It works on just one thing
Coding





Now tell me - How Does She Work





I work
through Coding





& **Who** are these Guys???





How do they Work???



All Through Coding





Do You Know Tomorrow



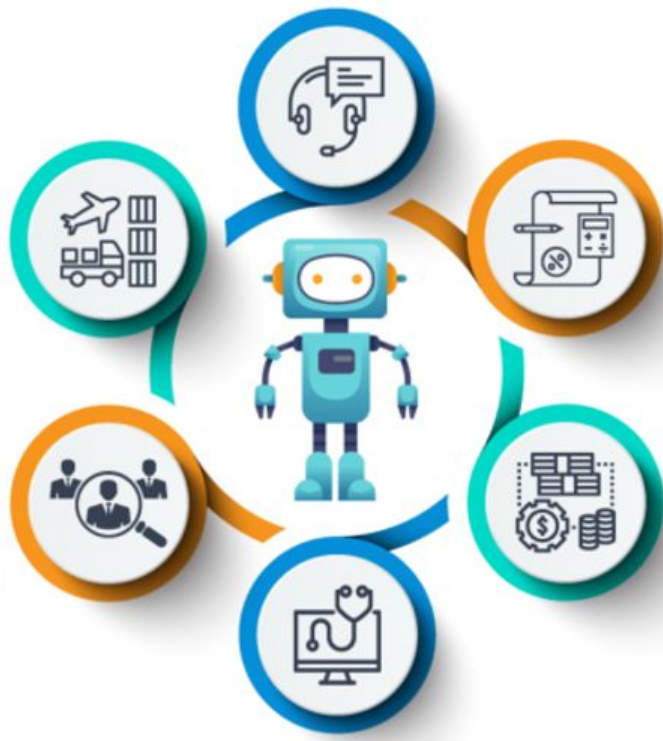
this Car –

Full of CODING

- will take you to College???



In fact
Coding will be Required for Everything





Before we start CODING
... let us see
a few amazing ROBOTS





He is world's very first
ROBOT





He is big
Very heavy
Doing Moulding in
Very High Temperatures



**Any Idea
Why we need him ???**





**Because Humans Cannot
do this Work
but
He can to do so
for Humans**





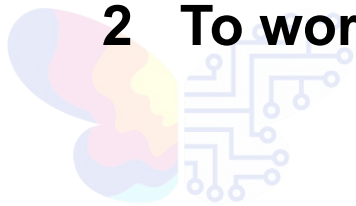
He can do this
because
He is
CODED





**So Children
what are the things we have learnt so far:**

- 1. Machines that work for humans are called Robots**
- 2 To work for us, they need to be Coded**



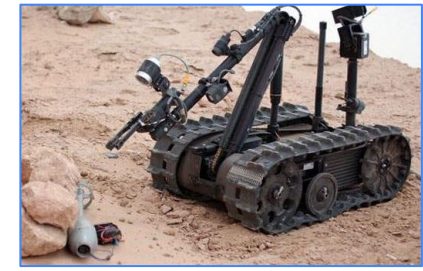


**He is a microscopic Robot
& operates in
very small spaces**



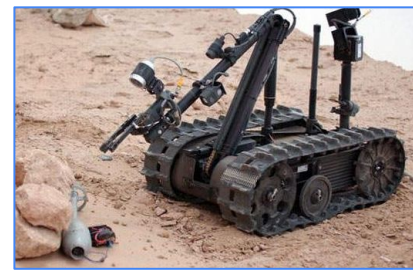


& guess - What are these two?





He is a nurse
Takes care of elders



He Defuses Bombs
Remotely





He is **coded** to Work

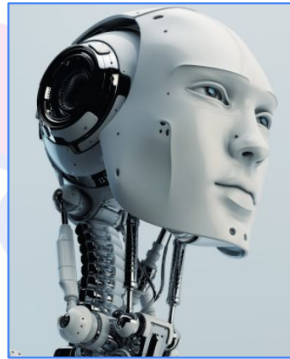
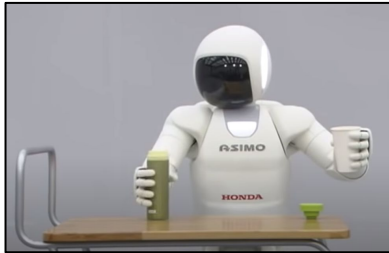


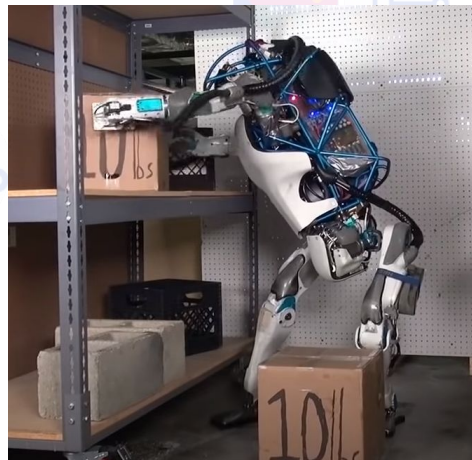
as a Hound



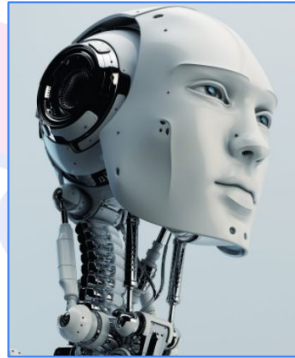
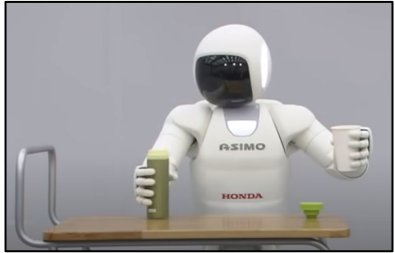


& Guess - What are these CODED to work as ???

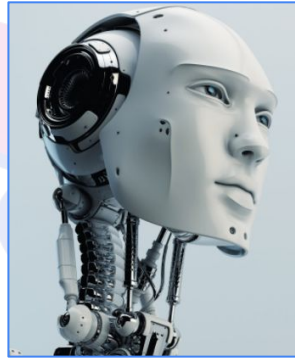
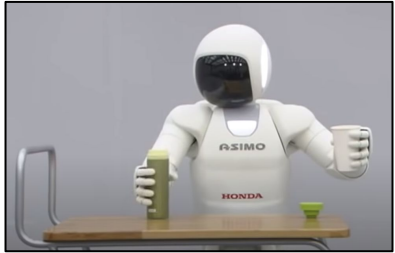




He as a Coffee man



**He as a
Humanoid**



and He as a
Hard working Soldier



Now Think & tell me

what can this Mighty Hound do





He Can

Climb Stairs



Wash Dishes



Hide Himself



Play with his Master





**Now raise your hands if you
want to
learn How
Some of these guys work?**



Let us see six interesting Videos of how **Coded Robots** work



Two legged Robotic Walker

Six Legged Robotic Walker



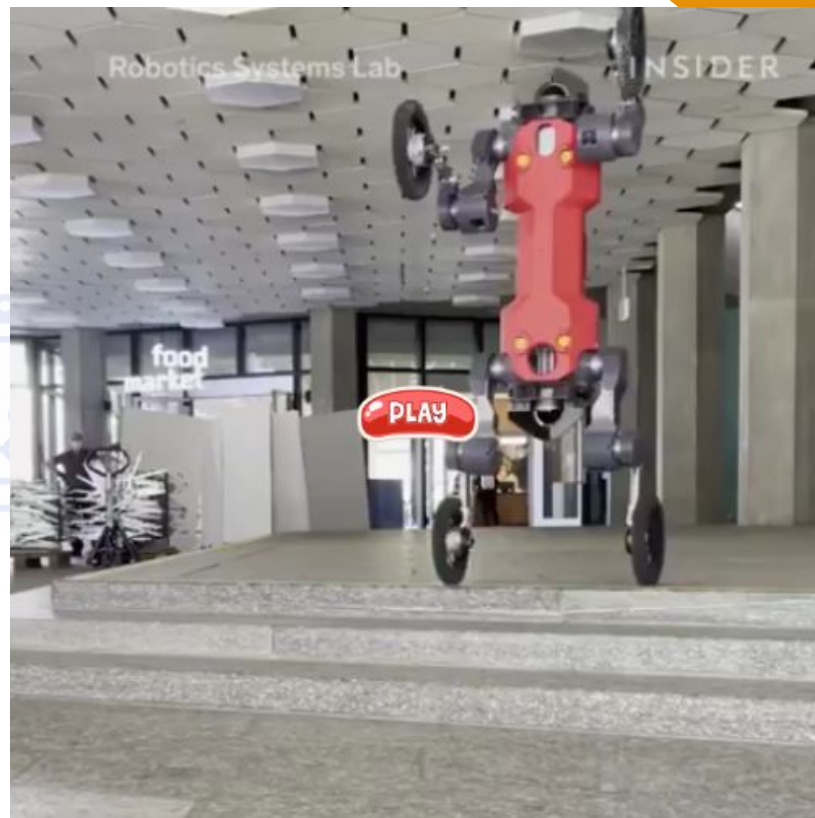
Robotic Claw



Robotic Bartender



He flies in the air or skims over
water & land



He is our future



Brief Recap

So Children **What have we learnt Today ?**



Today we have learnt that:

If we want to learn
how machines can work for us





Today we have learnt that:

If we want to learn
how machines can work for us

We must first learn
CODING





To Consolidate

**Look around
& tell me ten things**

**that are working for
us Humans**





Also tell me two things
you want
should ALSO work for us





End of Lesson 1



Code Karega India Badhega