Task

1.more IR sensors:

a. advanced line tracking sensor   
link: <https://store.fut-electronics.com/collections/light-infrared-sound/products/advanced-line-finder-kit>

Hint : it can be adjusted for any color with its non -volatile memory so it can do more than line tracking (phase 2 ),can be used for more feature in phase 3.

Has a high price && need 5 pins !!!!!!! .-

b. Line Tracker sensor

link: <https://store.fut-electronics.com/collections/light-infrared-sound/products/line-tracker-finder-sensor>

Hint : cheaper than normal IR sensor && here we have more flexibility (position of sensors on kit )&& we may work with less than 5 so we can save more pins for different sensors in phase 3.

2. Motors :

a. normal dc motors (which we use )

link : <https://store.fut-electronics.com/collections/motors/products/dc-geared-motors-for-robots-90-degree-shaft>

pros : has a small weight and low power consumption.

Cons: low speed !!!!!!!!!!

b. DC motor with metal gear

link: <https://store.fut-electronics.com/collections/motors/products/dc-motor-with-metal-gear-3-2-kg-cm-294-rpm>

pros : high speed && torque .

cons : high power consumption && big weight && high price .