Introduction to lego EV3 and Robot C

EV3 brick:

32 bit processor
16 M flash memory
64 M RAM

can use:
- ⇒ float
- ⇒ int, 16-bit, $-32768 \rightarrow 32768$
- ⇒ long, 32 bit, $-2^{31} \rightarrow 2^{31}$

EV3 motors:

⇒ medium and large
⇒ The encoders measure the shaft position.

EV3 sensors:

→ Touch → color/intensity → ultra sonic, → gyro.

Robot C vs C++: (Differences)

⇒ IDE ⇒ Size of memory ⇒ Libraries not needed.
⇒ Starts with task main(). ⇒ input/output will be diff.
⇒ Some constants are diff (name) ⇒ Some function are special to this program

Robot C - Wait function:

⇒ Handles any wait time, elapsed time
⇒ Command: wait1Msec(#) #: length of ms.

EV3 Set Motor Power:

⇒ Motors: A, B, C, D. (A, D are plugged).
⇒ for setting motor power use command:
motor[motor(letter)] = #

#-> power, range:
$-100 \leq \# \leq 100$
-100 -> full revers
0 -> Stop
100 -> full forward;