BLACKBOX IN PROGAMATION
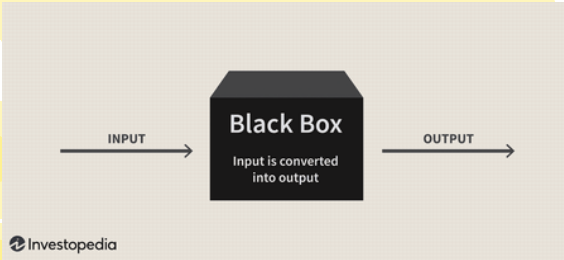
WHAT IS IT?

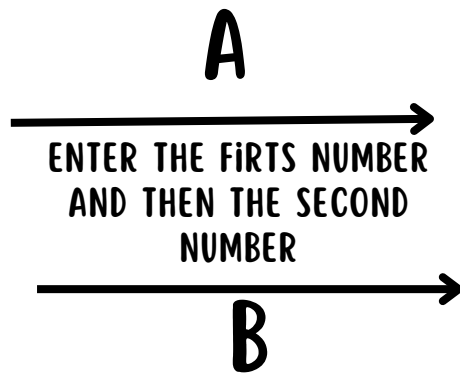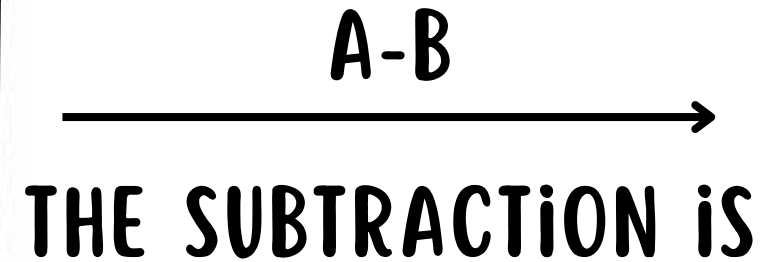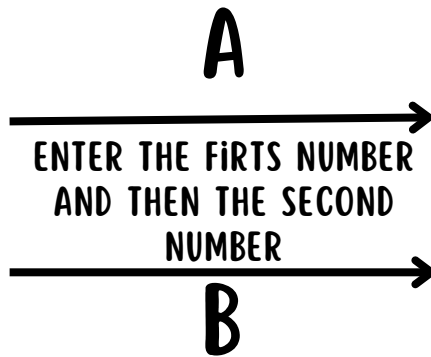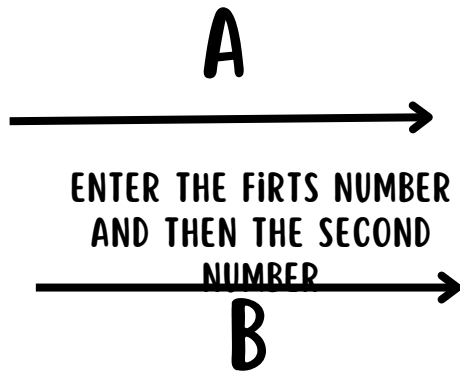BLACK BOX AI, IN ESSENCE, REFERS TO COMPLEX AI SYSTEMS WHOSE INTERNAL WORKINGS ARE NOT FULLY UNDERSTOOD OR EXPLAINABLE, EVEN BY THEIR CREATORS. THE TERM "BLACK BOX" METAPHORICALLY REPRESENTS THE OPACITY OF THESE SYSTEMS, AS INPUTS AND OUTPUTS CAN BE OBSERVED, BUT THE PROCESSES THAT TRANSPIRE WITHIN ARE LARGELY UNKNOWN AND INDECIPHERABLE. THESE AI MODELS, PARTICULARLY IN THE REALM OF DEEP LEARNING, CAN GENERATE HIGHLY ACCURATE PREDICTIONS OR DECISIONS, YET THEIR REASONING REMAINS ENIGMATIC. THIS LACK OF TRANSPARENCY OFTEN RAISES ISSUES OF TRUST, ACCOUNTABILITY, AND ETHICS IN AI DEPLOYMENT. IT'S THE FOCUS OF ONGOING RESEARCH TO DEVELOP TECHNIQUES FOR "OPENING" THESE BLACK BOXES, IMPROVING THE INTERPRETABILITY AND TRANSPARENCY OF AI SYSTEMS.
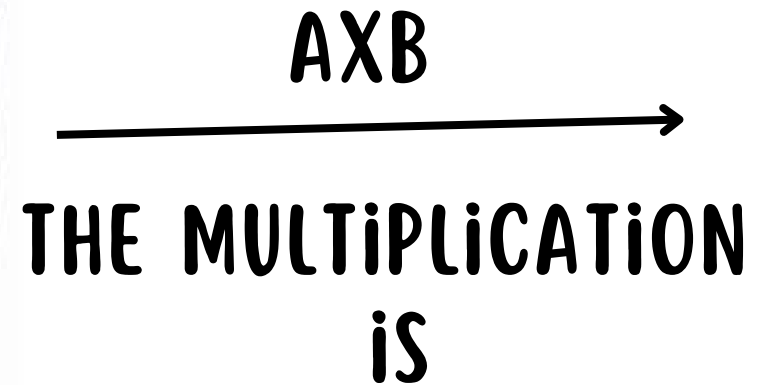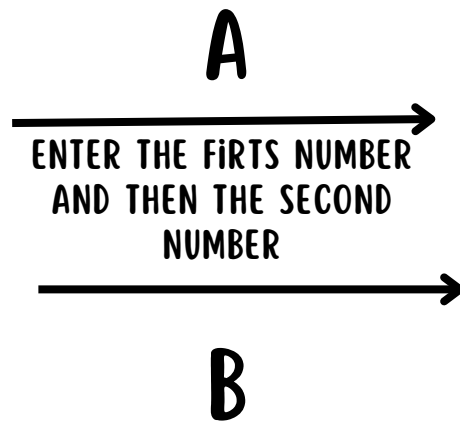

INPUT → Black Box — Input is converted into output → OUTPUT

Investopedia

A

ENTER THE FIRTS NUMBER AND THEN THE SECOND NUMBER

B

BLACKBOX

A+B

THE SUM IS

A

ENTER THE FIRTS NUMBER
AND THEN THE SECOND
NUMBER

B

BLACKBOX

A-B

THE SUBTRACTION IS

A

ENTER THE FIRTS NUMBER
AND THEN THE SECOND
NUMBER

B

BLACKBOX

AXB

THE MULTIPLICATION IS

A

ENTER THE FIRTS NUMBER
AND THEN THE SECOND
NUMBER

B

BLACKBOX

A/B

THE DIVISION IS

A

ENTER THE FIRTS NUMBER
AND THEN THE SECOND
NUMBER

B

BLACKBOX

A+B PLUS IS THE NUMBER
OF LITTLE SAYINGS

THE AVERAGE IS