



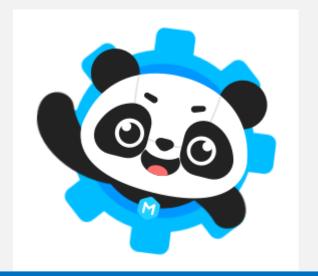
My first Software



For today's session:

- 1. mBlock software
- 2. My first software building





Let's begin with mBlock Programming



mBlock- Scratch based software

- Based on MIT's scratch for STEAM education
- Drag and Drop type of coding
- makes programming as easy as building blocks
- Different Blocks with different functions
- You can create stories, games, animations, shapes, control your robot, etc

Download link:

https://mblock.makeblock.com/en-us/download/



```
when clicked

pen down

repeat 4

move 100 steps

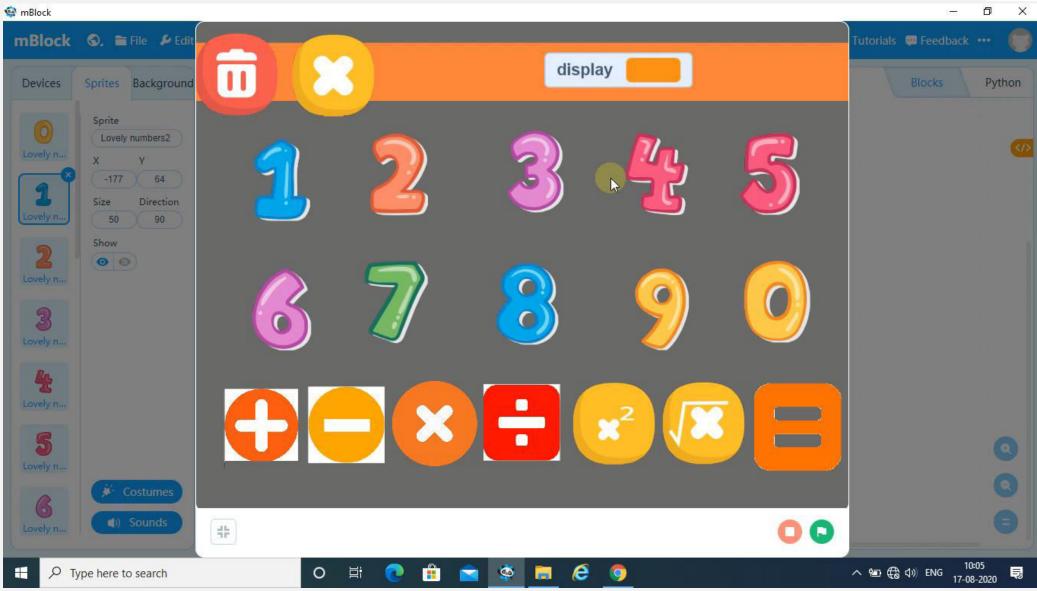
turn C 90 degrees
```



My first software

Calculator







What did we see?



Observations:

• It's a calculator

• Using this calculator we can perform many operations like addition, subtraction, multiplication, division, square and square root.

• We can perform operation on any digit number.

Let's make program in mBlock for "calculator"



Steps to make a program of calculator in mBlock

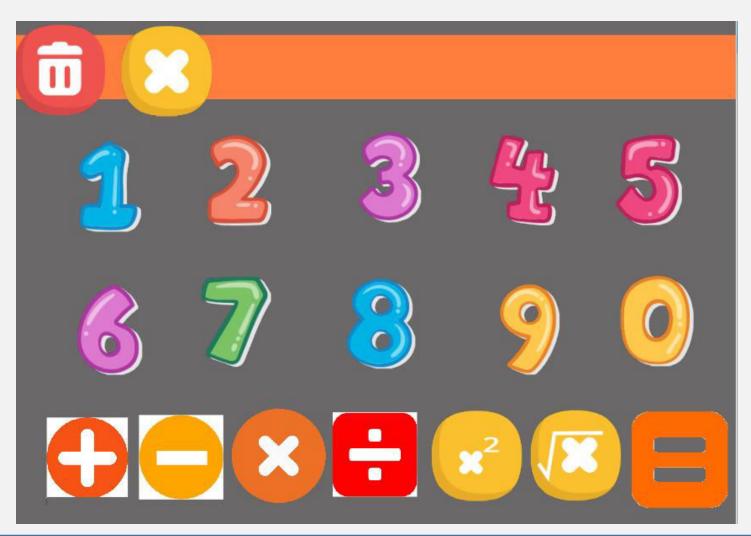
Step 1: Open mBlock Software. Go to Background tab and paint

background as follows.



MAKEBOT

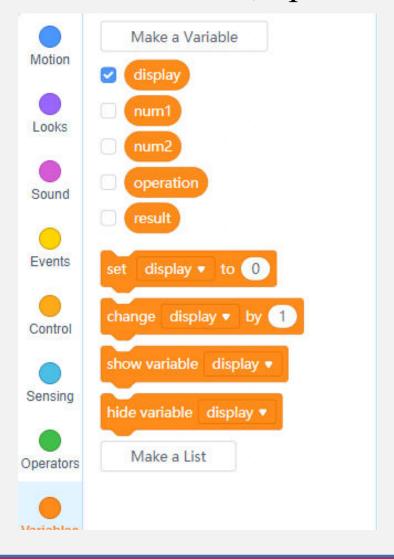
Step2: Now click on the sprite tab and add all the sprites required to make calculator like numbers, operators.(If not present in sprite library make one)





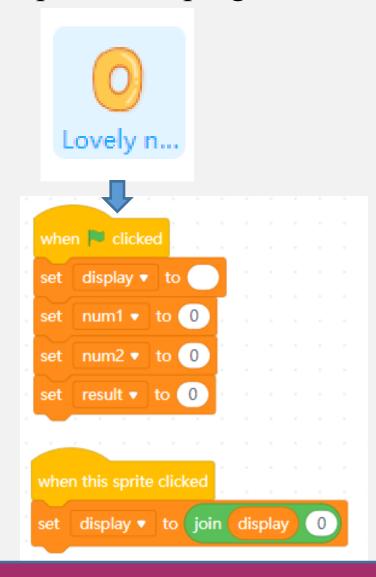
Step 3: Make variables to store numbers, operation type, result and

display

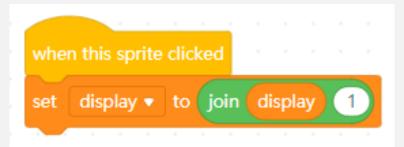




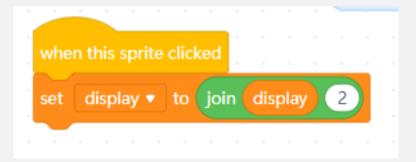
Step 4: Write program for each sprite













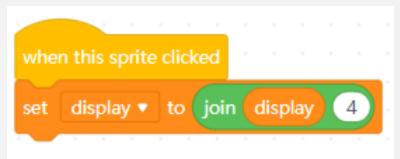
Step 5: Write program for each sprite

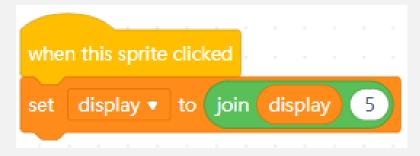








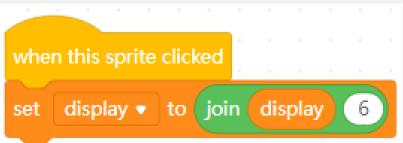




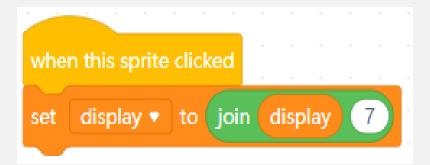


Step 6: Write program for each sprite







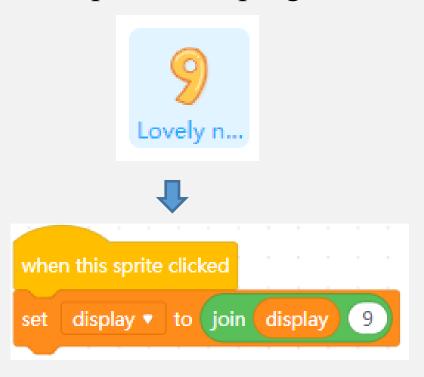




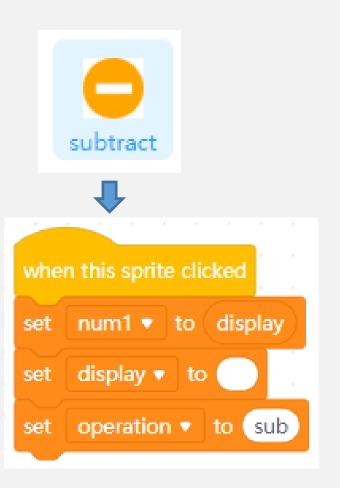




Step 5: Write program for each sprite









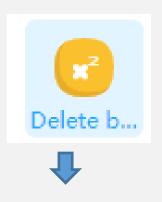
Step 5: Write program for each sprite



operation ▼ to mul



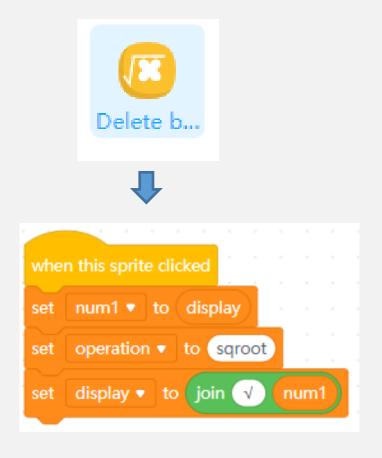


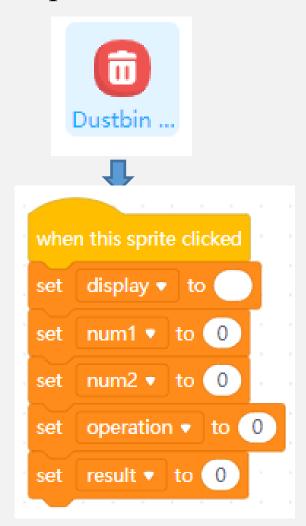


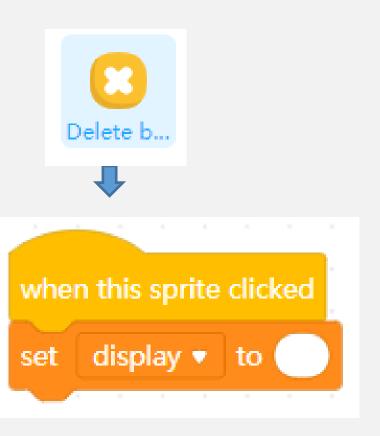




Step 5: Write program for each sprite







Step 5: Write program for each sprite







