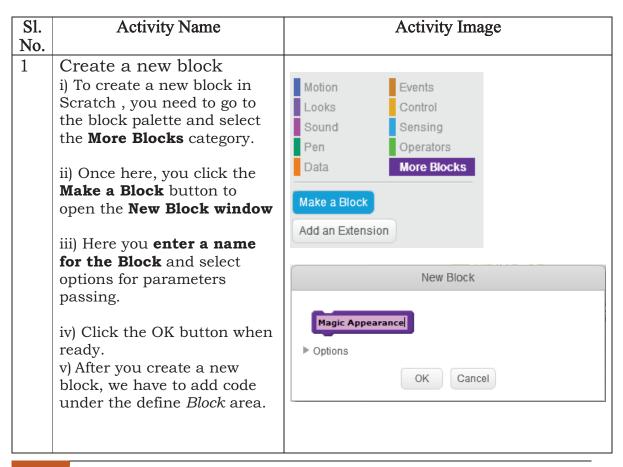
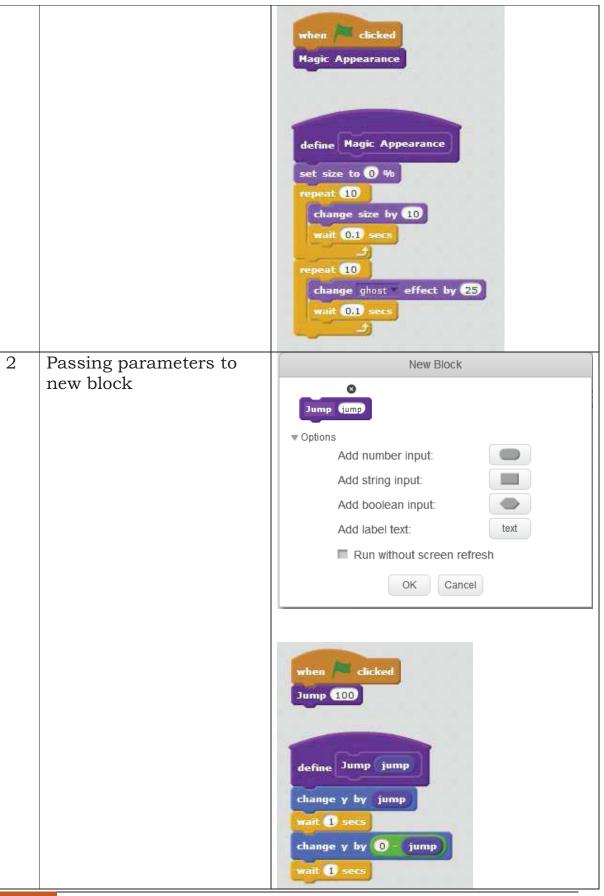
Creating your own blocks- Functions

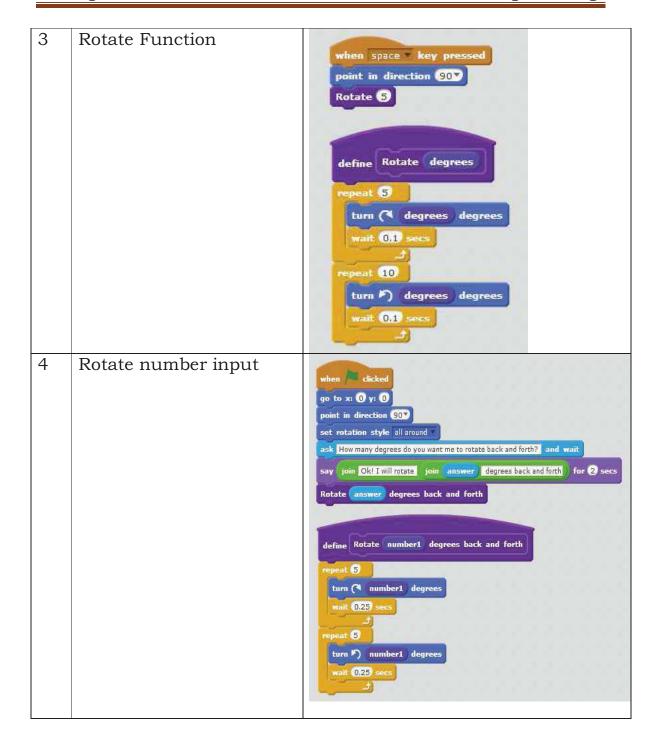
My Blocks (known as More Blocks in Scratch 2.0) is one of the ten categories of Scratch blocks. It holds procedures for the selected sprite. They are color-coded pink. Before any blocks are created, it is empty, except for a "Make a Block" button. Clicking Make a Block brings up a dialogue allowing the user to make a procedure. Once OK is pressed, the new block appears in the palette and an empty definition appears in the code area. When the procedure runs, Scratch will run the blocks below the corresponding Define block.

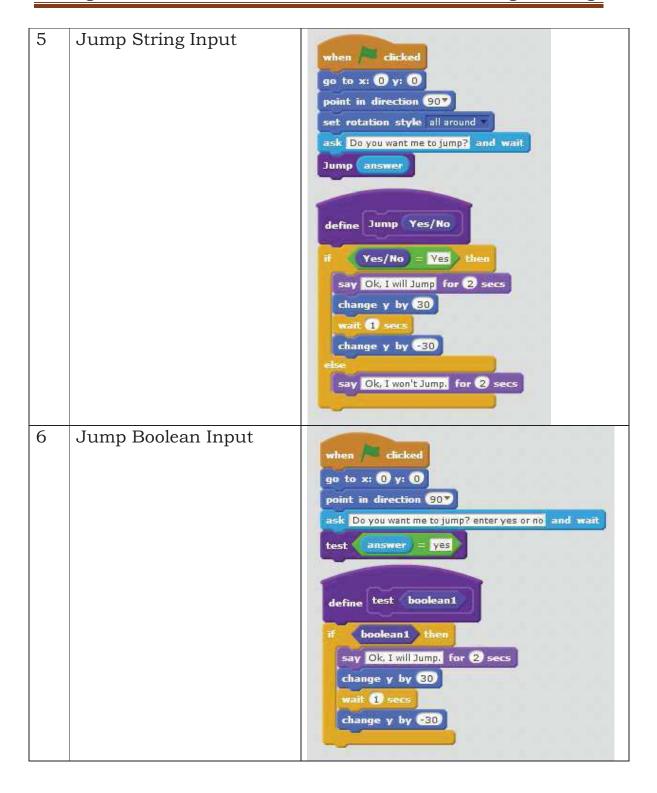
Uses of My Blocks

'Make a Block' provides the ability to reuse the same code in multiple places without having to duplicate the code. It also allows one part of code to pass information to another part. Some programmers call reusable code that is called by another part of a program a 'subroutine' or 'function'.









Sprite moving with keys using functions.

define left

say left arrow pressed for 2 secs
change x by -20

define down

say down arrow pressed for 2 secs
change y by -20

define up

say up arrow pressed for 2 secs
change y by -20

```
when clicked

go to x: 0 y: 0

point in direction 90 say Press arrow keys for different functions for 2 secs

forever

if key up arrow pressed? then

up

if key down arrow pressed? then

down

if key left arrow pressed? then

left

right
```