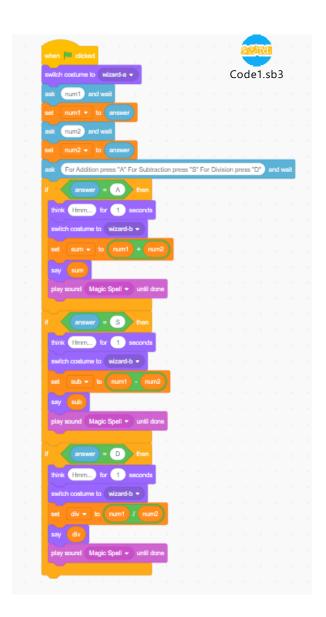
22K-4489

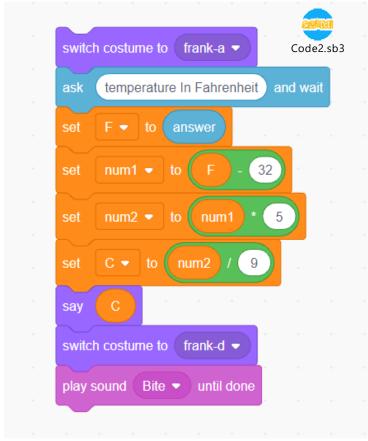
Make a simple calculator which performs basic arithmetic operations of mathematics such as addition, subtraction, division, and multiplication using scratch.





Make a simple temperature converter that converts Fahrenheit into Celsius.

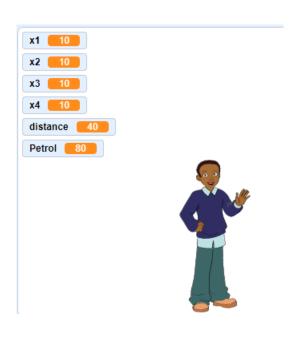
Celsius = ((Fahrenheit-32)*5).



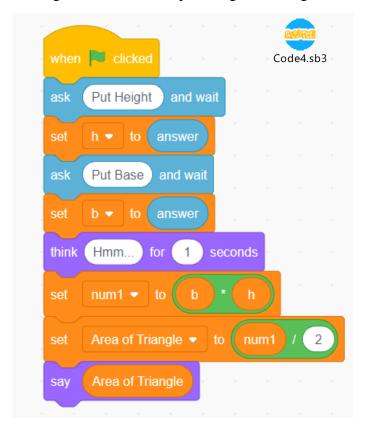


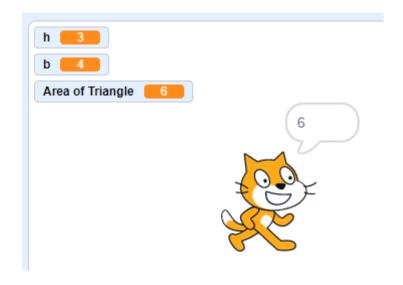
A bus leaves the university to take students on a field trip. The bus travels 10 kilometers south, 10 kilometers west, another 5 kilometers south and 15 kilometers north with the fuel consumption of 2 liters/km. Using scratch calculate how many kilometers it has covered and how much fuel it has consumed on a field trip?





Calculate the area for a triangle in which user inputs height and length of a triangle using scratch.





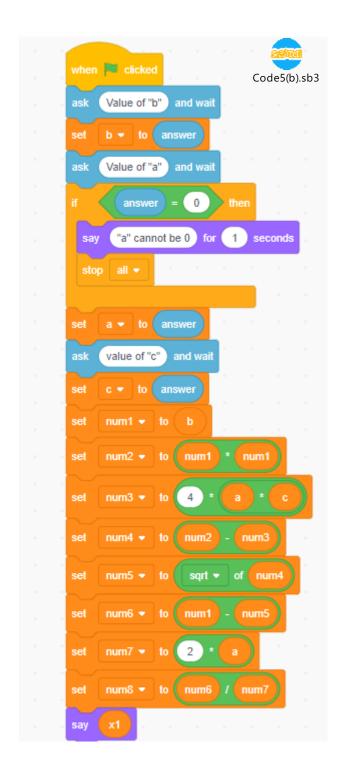
Find out coordinates of midpoint using given formula, derived from Pythagorean Theorem and value of X by Quadratic formula using scratch, as follows:

a. Midpoint= ((x2+x1/2), (y2+y1/2))

b. $x = -b \pm \sqrt{b2-4ac}$ 2a Given $(a \neq 0.)$









For 4 weeks, Waseem volunteered as a helper for swimming classes. The first week, he volunteered for 8 hours. He volunteered for 12 hours in the second week, and another 12 hours in the third week. The fourth week, he volunteered for 9 hours. Using scratch calculate how many hours did he volunteer per week, on average?

```
when clicked

set HOURS in week1  to 3

set HOURS in week2  to 12

set HOURS in week3  to 12

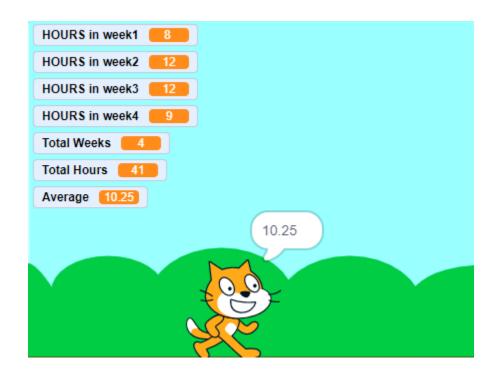
set HOURS in week4  to 9

set Total Hours  to HOURS in week1  + HOURS in week2  + HOURS in week3  + HOURS in week4

set Total Weeks  to 4

set Average  to Total Hours  / Total Weeks

say Average
```



A sweater is on sale for 25% off the original price. The original price is Rs. 5000. Using scratch calculate and print the sale price.

```
when clicked Code7.sb3

set Discount % v to 25

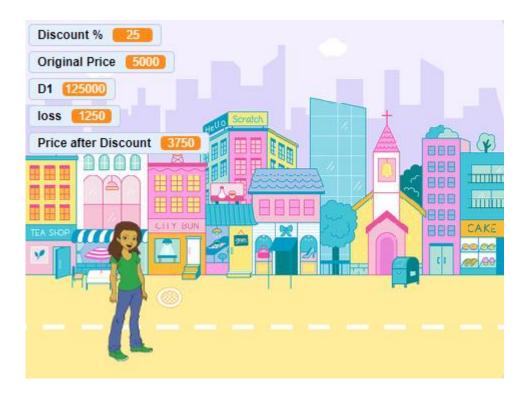
set Original Price v to 5000

set D1 v to Discount % v Original Price

set loss v to D1 / 100

set Price after Discount v to Original Price - loss

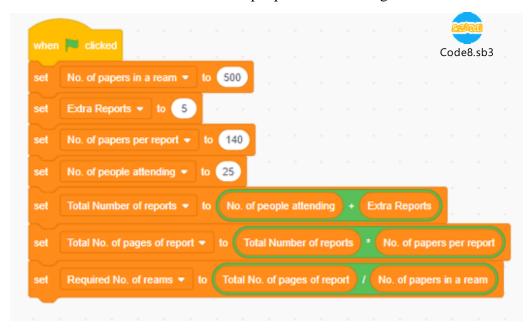
say Price after Discount
```



One of the jobs that Joe Roberts has been given at work is to order special paper for a report for a board meeting. The paper comes in reams of 500 sheets. He always makes five more copies than the number of people that will be there. Joe wants to know how many reams of paper he needs for a meeting. He can order only whole, not partial, reams. Assume the required number of pages will not equal an exact number of reams. Test your solution using scratch with the following data:

The report is 140 pages long.

There will be 25 people at the meeting.







Ali and Bilal are the friends. Write some greeting conversation in between them when clicked on the spirit.

```
when clicked Code9.sb3

switch costume to dee-a 
go to x: -312 y: -50

glide 2 secs to x: -150 y: -50

switch costume to dee-b 
play sound pop 
until done

say Hi for 1 seconds

broadcast message1 
and wait

say Devin I'm facing much problems in calculus. Can you help me out? for 3 seconds

broadcast message2
```



