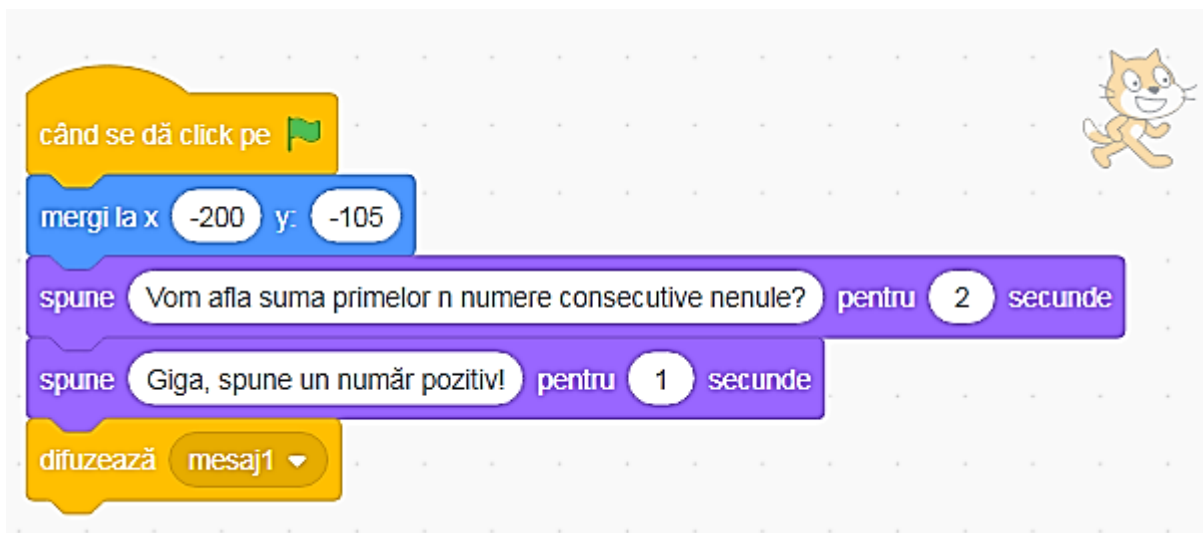


## Giga și Pif – Sume de numere

Sunt două personaje. Primul calculează suma a  $n$  numere naturale pozitive nenule prin însumarea numerelor consecutive.

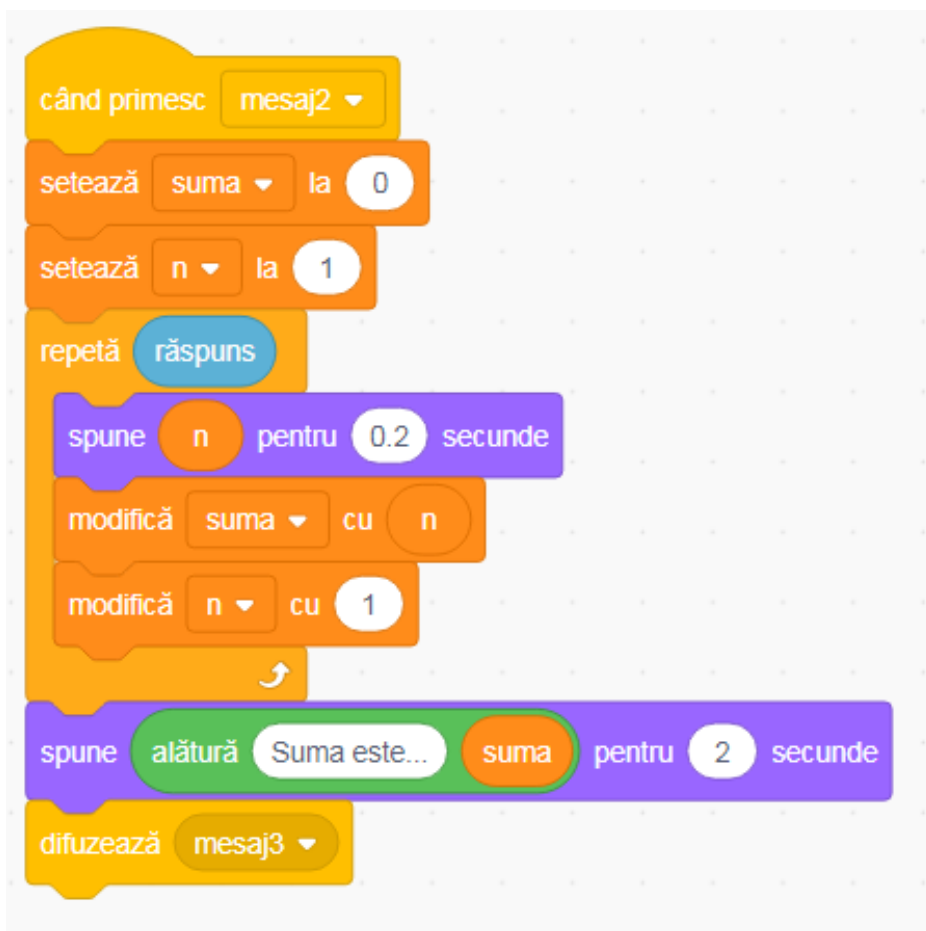
Al doilea personaj folosește formula de calcul pentru suma lui Gauss.

### Personajul Pif - scenariu



Scratch script for the Pif character. It starts with a 'when clicked' event, moves the character to x: -200, y: -105, asks 'Vom afla suma primelor n numere consecutive nenule?' for 2 seconds, asks 'Giga, spune un număr pozitiv!' for 1 second, and then broadcasts a message named 'mesaj1'.

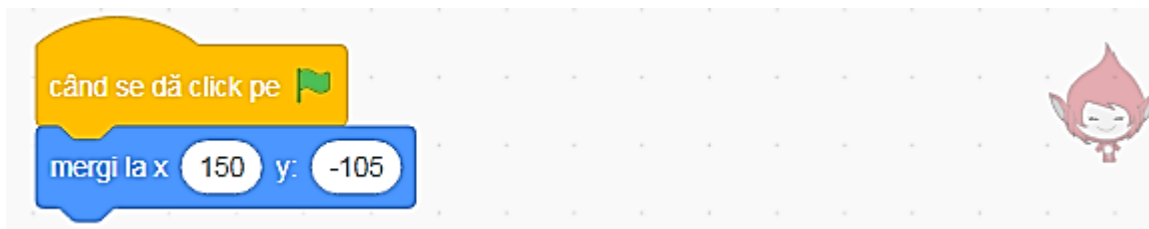
```
when clicked on the flag clicked
  move to x: -200 y: -105
  say "Vom afla suma primelor n numere consecutive nenule?" for 2 seconds
  say "Giga, spune un număr pozitiv!" for 1 seconds
  broadcast message "mesaj1"
```



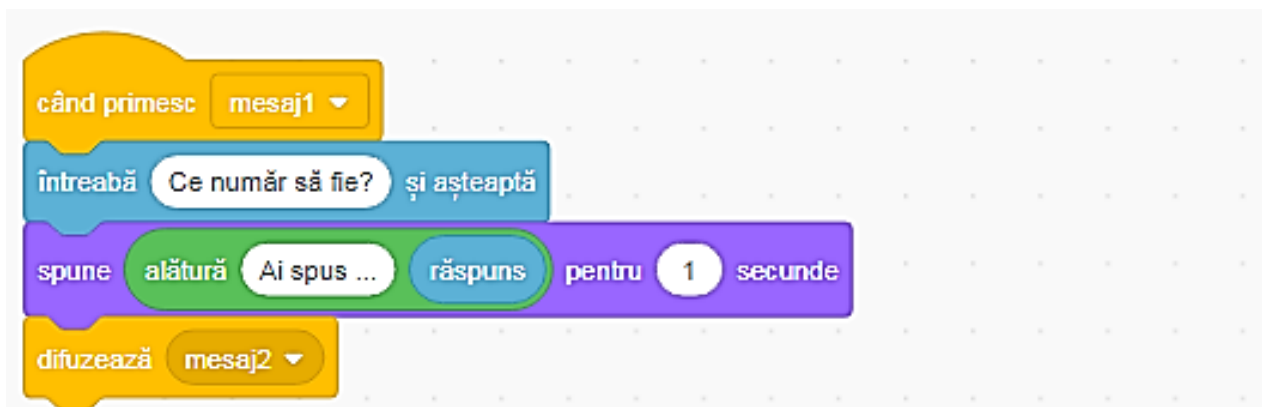
Scratch script for the Giga character. It starts with a 'when received message' event for 'mesaj2', sets 'suma' to 0 and 'n' to 1, enters a 'repeat' loop for 'răspuns' containing: say 'n' for 0.2 seconds, modify 'suma' by 'n', and modify 'n' by 1. After the loop, it says 'Suma este...' followed by the value of 'suma' for 2 seconds, and then broadcasts a message named 'mesaj3'.

```
when received message "mesaj2"
  set suma to 0
  set n to 1
  repeat (răspuns)
    say n for 0.2 seconds
    modify suma by n
    modify n by 1
  say "Suma este..." suma for 2 seconds
  broadcast message "mesaj3"
```

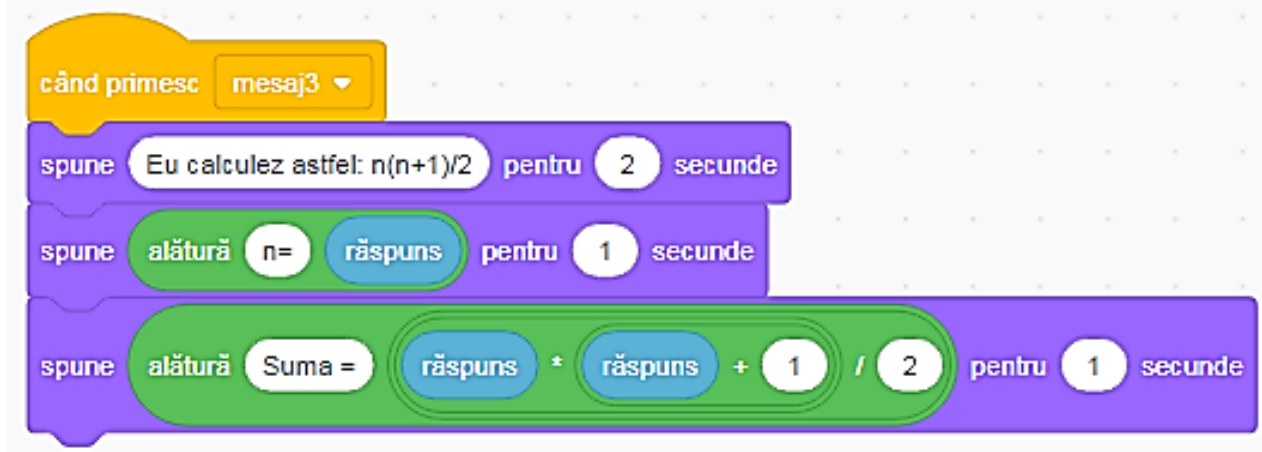
Personajul Giga- scenariu



```
when clicked on the green flag  
go to x: 150 y: -105
```

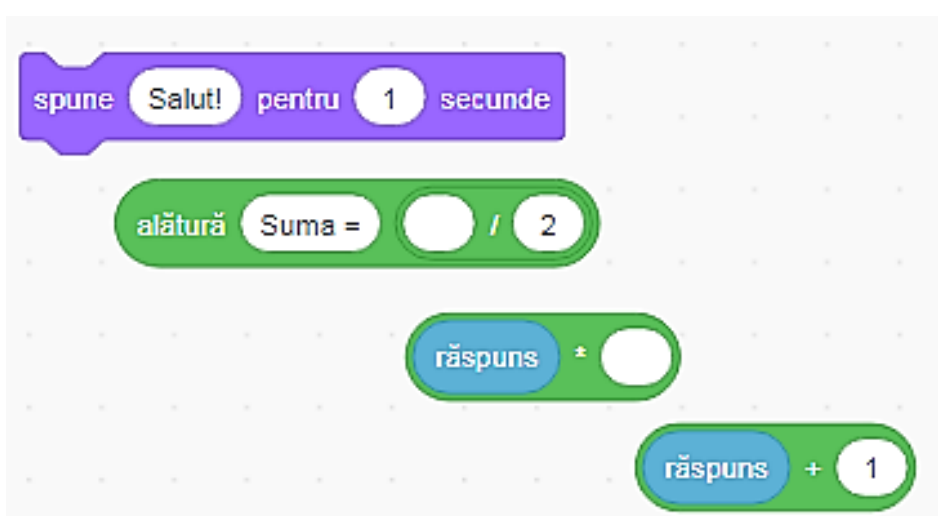


```
when message received  
ask "Ce număr să fie?" and wait  
say "Ai spus ..." for 1 seconds  
broadcast message
```



```
when message received  
say "Eu calculez astfel: n(n+1)/2" for 2 seconds  
ask "n=" for 1 seconds  
say "Suma = (răspuns * (răspuns + 1) / 2)" for 1 seconds
```

Formula de clacul este formată din:



```
say "Salut!" for 1 seconds  
say "Suma = " / 2  
răspuns *  
răspuns + 1
```