

## Structuri repetitive și alternative

Afișare

```
+ start show sensor data
repeat until button enter pressed?
do
  show text "ANA ARE MERE"
  in column 1
  in row 1
```



**TEME DE DISCUȚII:**  
Care sunt elementele  
blocului Show text?

Stea

```
+ start show sensor data
repeat 10 times
do
  repeat 4 times
  do
    drive forwards speed % 70
      distance cm 50
    turn right speed % 10
      degree 90
  turn right speed % 30
    degree 35
```

Înaintarea robotului până când tasta ENTER este apăsată

```
+ start show sensor data
drive forwards speed % 30
+ wait until get pressed button enter = true
```

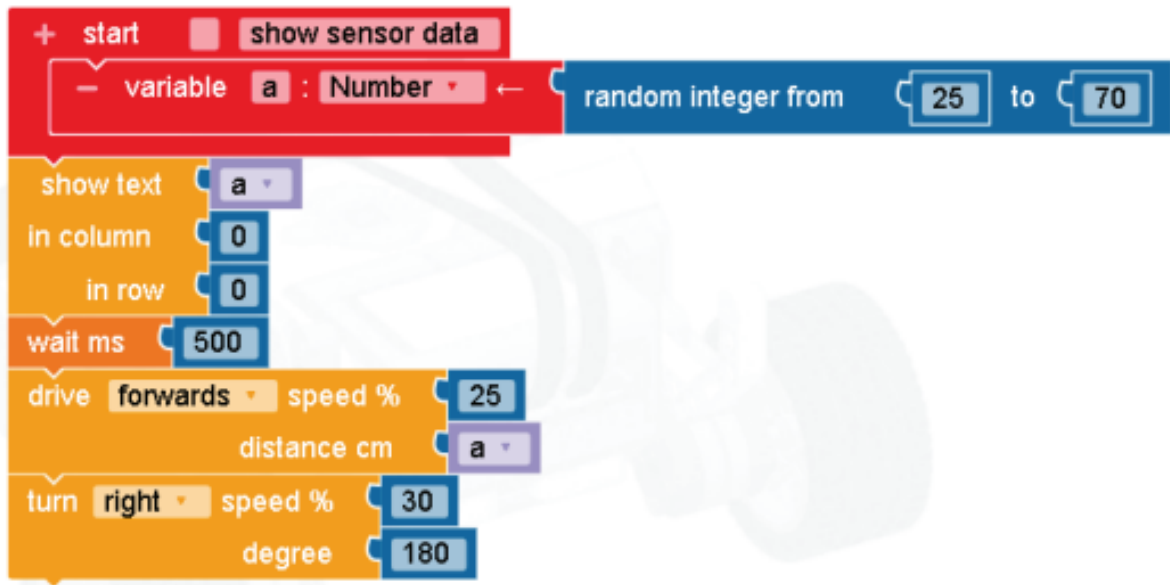
Generare și afișare – numere generate aleatoriu

```
+ start show sensor data
show text random integer from 1 to 100
in column 0
in row 0
show text random integer from 1 to 100
in column 5
in row 0
wait ms 2500
```



OPEN ROBERTA , clasa a VII-a, 1-10.02

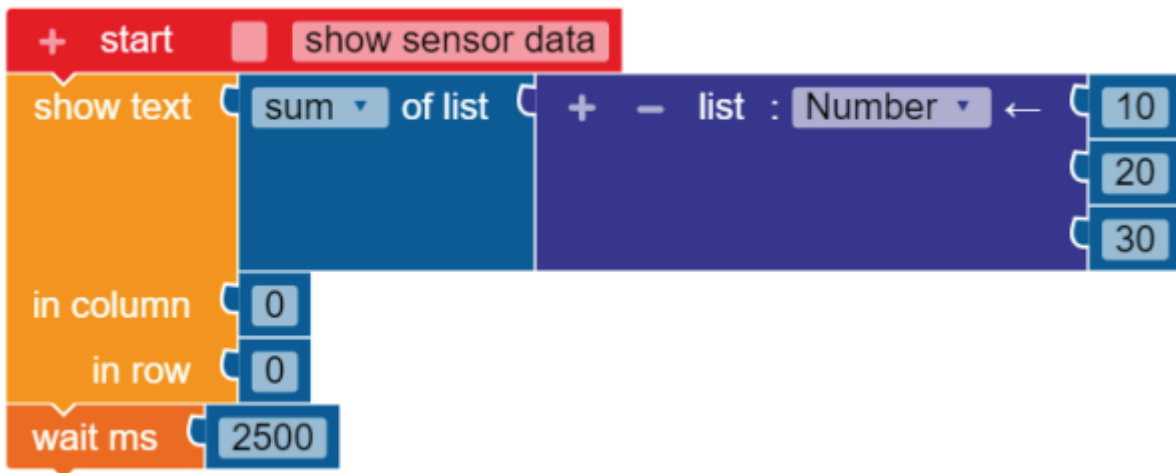
Realizați un program care va face ca robotul să se întoarcă cu 180 grade la X cm distanța față de locul de plecare, unde X este un număr cuprins între 25 și 70.



```
+ start show sensor data
- variable a : Number ← random integer from 25 to 70
show text a
in column 0
in row 0
wait ms 500
drive forwards speed % 25
distance cm a
turn right speed % 30
degree 180
```

The code starts with a 'start' block and a 'show sensor data' block. A variable 'a' of type 'Number' is initialized with a 'random integer from 25 to 70'. A 'show text' block displays the value of 'a'. The robot is positioned at column 0 and row 0. It then waits for 500 ms. The robot is driven forward at 25% speed for a distance of 'a' cm. Finally, it turns right at 30% speed by 180 degrees.

Realizați un program care va calcula suma numerelor dintr-o listă dată.



```
+ start show sensor data
show text sum of list + - list : Number ← 10 20 30
in column 0
in row 0
wait ms 2500
```

The code starts with a 'start' block and a 'show sensor data' block. A 'show text' block displays the 'sum of list' for a list containing the numbers 10, 20, and 30. The robot is positioned at column 0 and row 0. It then waits for 2500 ms.