

1. Write a program that creates and initializes a &quot;N&quot; element integer array. Calculate and display the average of its values.

```
package practise;

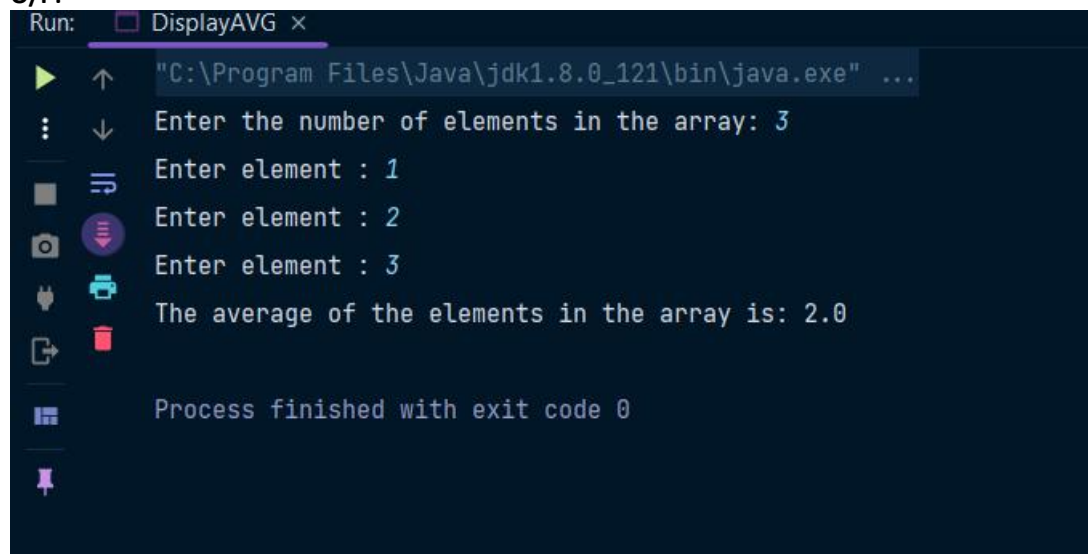
import java.util.Scanner;

public class DisplayAVG {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter the number of elements in the array: ");
        int n = sc.nextInt();
        int[] arr = new int[n];
        for (int i = 0; i < n; i++) {
            System.out.print("Enter element " + i + ": ");
            arr[i] = sc.nextInt();
        }

        int sum = 0;
        for (int i : arr) {
            sum += i;
        }
        double average = (double)sum / n;

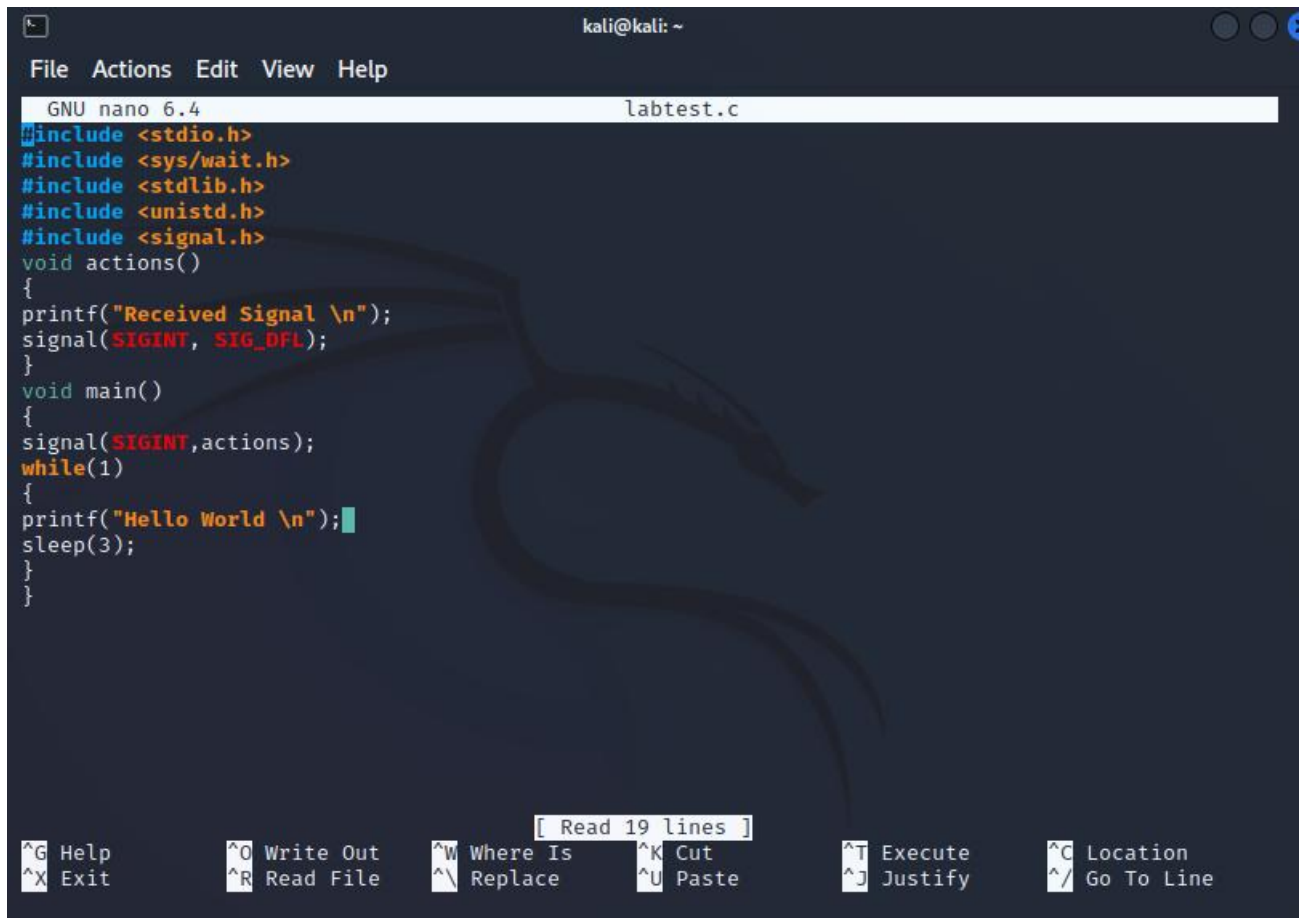
        System.out.println("The average of the elements in the array
                           is: " + average);
    }
}
```

O/P:



```
Run: [x] DisplayAVG x
  "C:\Program Files\Java\jdk1.8.0_121\bin\java.exe" ...
  Enter the number of elements in the array: 3
  Enter element : 1
  Enter element : 2
  Enter element : 3
  The average of the elements in the array is: 2.0
  Process finished with exit code 0
```

2. Write a C Program which receives a SIGINT Signal and when received SIGINT prints "received the signal", and sets to the default behavior, so that second time if a SIGINT is received to the program, it will terminate.

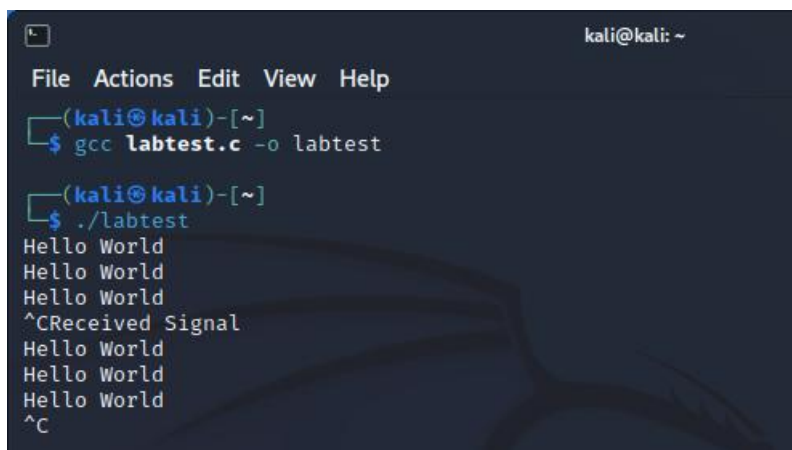


```
GNU nano 6.4 labtest.c
#include <stdio.h>
#include <sys/wait.h>
#include <stdlib.h>
#include <unistd.h>
#include <signal.h>
void actions()
{
printf("Received Signal \n");
signal(SIGINT, SIG_DFL);
}
void main()
{
signal(SIGINT,actions);
while(1)
{
printf("Hello World \n");
sleep(3);
}
}
```

[ Read 19 lines ]

^G Help   ^O Write Out   ^W Where Is   ^K Cut   ^T Execute   ^C Location  
^X Exit   ^R Read File   ^\_ Replace   ^U Paste   ^J Justify   ^\_ Go To Line

OP



```
kali@kali: ~
File Actions Edit View Help
(kali@kali)-[~]
$ gcc labtest.c -o labtest
(kali@kali)-[~]
$ ./labtest
Hello World
Hello World
Hello World
^CReceived Signal
Hello World
Hello World
Hello World
^C
```