## LAB EXAM

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

```
Solution:
```

```
package com.exam;
import java.util.Scanner;
public class labexam {
public static void main(String[] args) {
Scanner <u>sc</u> = 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++) {</pre>
System.out.print("Enter a value for element " + i + ": ");
arr[i] = sc.nextInt();
}
double average = 0;
for (int i = 0; i < n; i++) {</pre>
average += arr[i];
}
average /= n;
System.out.println("The average of the array is: " +average);
}
}
```

OutPut:

```
@ Javadoc Declaration Console X

<terminated> labexam [Java Application] C:\Users\ADMIN\.p2\pool\plugins\org.eclipse.ju

Enter the number of elements in the array: 3

Enter a value for element 0: 10

Enter a value for element 1: 10

Enter a value for element 2: 10

The average of the array is: 10.0
```

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

Solution:

```
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GNU nano 6.4 sigint.c

#include <stdio.h>
#include <stdib.h>
#include <stdlib.h>
#include <erno.h>

int kill(pid_t pid, int sig);
void main() {

    int id;
    printf("Enter pid of the process you want to receive signal from \n");
    scanf("%d", &id);
    kill(id, SIGINT);
    printf("Received the signal");
}
```