

Lab Exam OS

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Q1.

```
package labExamOS;
import java.io.*;
import java.lang.*;
import java.util.*;

public class labexam {

    public static int[] addX(int n, int arr[], int x)
    {
        int i;

        int newarr[] = new int[n + 1];
        for (i = 0; i < n; i++)
            newarr[i] = arr[i];

        newarr[n] = x;
        return newarr;
    }

    public static void main(String[] args)
    {

        int n = 10;
        int i;
        int arr[]
            = { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 };

        System.out.println("Initial Array:\n" + Arrays.toString(arr));

        int x = 50;
        arr = addX(n, arr, x);

        System.out.println("\nArray with " + x
            + " added:\n"
            + Arrays.toString(arr));
    }
}
```

Output:

```
Problems @ Javadoc Declaration Console X
<terminated> labexam [Java Application] E:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe (15-Jan-
Initial Array:
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Array with 50 added:
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 50]
```

Q2.

```
GNU nano 6.4 q2.c
#include <stdio.h>
#include <sys/wait.h>
#include <stdlib.h>
#include <unistd.h>
void main()
{
    pid_t id;
    id = fork();
    if(id>0)
    {
        printf("Parent Executing \n");
        sleep(5);
        wait(NULL);
        printf("Parent finished \n");
    }
    else
    {
        printf("Child finished \n ");
        exit(0);
    }
}
```

```
Parent Executing
Child finished

Parent finished
```