Lab Exam OS

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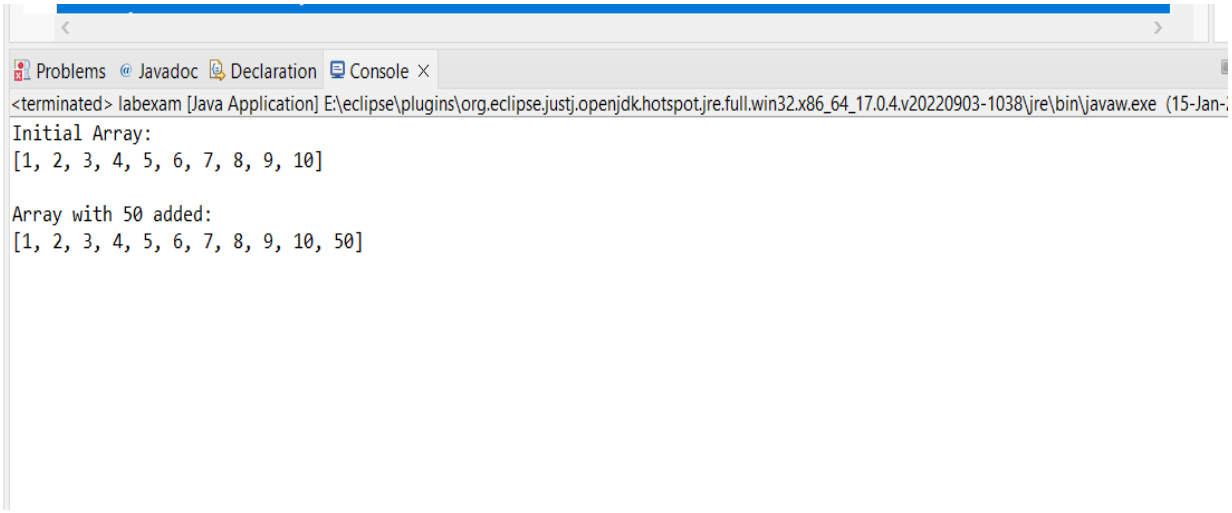
Q1.

```
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:



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
```