

## Lab EXAM COP&OS

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Q1.

```
package COPEXAM;

import java.util.Scanner;

public class Insert_Array
{
    public static void main(String[] args)
    {
        int n, pos, x;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter no. of elements you want in
array:");
        n = s.nextInt();
        int a[] = new int[n+1];
        System.out.println("Enter all the elements:");
        for(int i = 0; i < n; i++)
        {
            a[i] = s.nextInt();
        }
        System.out.print("Enter the position where you want to
insert element:");
        pos = s.nextInt();
        System.out.print("Enter the element you want to insert:");
        x = s.nextInt();
        for(int i = (n-1); i >= (pos-1); i--)
        {
            a[i+1] = a[i];
        }
        a[pos-1] = x;
        System.out.print("After inserting:");
        for(int i = 0; i < n; i++)
        {
            System.out.print(a[i]+",");
        }
        System.out.print(a[n]);
    }
}
```

```
Enter no. of elements you want in array:5
Enter all the elements:
10
20
30
40
50
Enter the position where you want to insert element:3
Enter the element you want to insert:33
After inserting:10,20,33,30,40,50
```

Q2.

```
#include <stdlib.h>
#include <sys/types.h>
#include <unistd.h>
int main()
{

    pid_t child_pid = fork();

    // Parent process
    if (child_pid > 0)
    {printf("Parent call");

        sleep(100);
    }
    else {
        printf("child called");
        exit(0);
    };
    return 0;
}
```

```
/tmp/mRr4UrDpMM.o  
child called
```