## **OS LAB EXAM**

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```
1)
package com.os.main;
import java.util.Arrays;
public class OSLAB {
   public static void main(String[] args)
     {
        int[] array_nums = {50, 72, 52, 45,
10};
       System.out.println("Original Array:
"+Arrays.toString(array nums));
       int max val = array nums[0];
       int min = array nums[0];
       for(int i = 1; i < array_nums.length;</pre>
i++)
       {
           if(array_nums[i] > max_val)
               max_val = array_nums[i];
           else if(array nums[i] < min)</pre>
               min = array_nums[i];
       }
       System.out.println("Difference between
the largest and smallest
               + "values of the said array:
"+(max_val-min));
     }
```

```
}

© Console ×

eterminated> OSLAB [Java Application] F\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4v20220903-1038\jre\bin\javaw.exe (15-Jan-2023, 11:33:08 am - 11:33:08 Driginal Array: [50, 72, 52, 45, 10]

Difference between the largest and smallest values of the said array: 62
```

2)

```
day5 > C child.c > @ main()
     #include <stdio.h>
  1
      #include <stdlib.h>
  2
  3
      #include <sys/types.h>
  4
      #include <unistd.h>
  5
      // Driver code
  6
  7
      int main()
  8
  9
          int arr[] = \{1, 2, 3, 4, 5\};
 10
          pid_t pid;
 11
 12
          // fork a child process
 13
          pid = fork();
 14
 15
          if (pid < 0)
 16
              fprintf(stderr, "Fork Failed");
 17
 18
              return 1;
 19
          else if (pid == 0)
 20
 21
 22
              // child process
              int n = sizeof(arr) / sizeof(arr[0]);
 23
              for (int i = 0; i < n; i++)
 24
                  printf("%d ", arr[i]);
 25
 26
 27
              printf("Child Process is Finished \n");
 28
          else
 29
 30
 31
              // parent process
              wait(NULL);
 32
 33
              printf("Parent Process is Finished\n");
 34
 35
 36
          return 0;
 37
```

```
#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <unistd.h>
// Driver code
int main()
    int arr[] = \{1, 2, 3, 4, 5\};
    pid_t pid;
    // fork a child process
    pid = fork();
    if (pid < 0)
        fprintf(stderr, "Fork Failed");
        return 1;
    else if (pid == 0)
        // child process
        int n = sizeof(arr) / sizeof(arr[0]);
        for (int i = 0; i < n; i++)
            printf("%d ", arr[i]);
        printf("Child Process is Finished \n");
    else
        // parent process
        wait(NULL);
        printf("Parent Process is Finished\n");
    return 0;
```