

**NAME: DATTATRAY MANGRULKAR**

**SUBJECT:- OS LAB ASSIGNMENT**

```
1 #!/bin/bash [~]
2
3 arr=( 10 1 2 3 4 5 )
4
5 min=0 max=0
6
7 for i in ${arr[@]}; do
8     (( $i > max || max == 0 )) && max=$i
9     (( $i < min || min == 0 )) && min=$i
10 done
11
12 echo "min=$min"
13 max=$max"
14 difference=$(expr $max - $min )
15 echo difference is: "$difference"
16
17
18
19
20
21
22
23
24
25
26
```

"ArrayDifference.sh" 36L, 269B

Auto capture keyboard ...

13,1

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```
(kali@kali)-[~/labAssignment]
```

```
$ vim ArrayDifference.sh
```

```
Error detected while processing /home/kali/.vimrc:
```

```
line 2:
```

```
E518: Unknown option: tapstop=4
```

```
Press ENTER or type command to continue
```

```
(kali@kali)-[~/labAssignment]
```

```
$ bash ArrayDifference.sh
```

```
min=1
```

```
max=10
```

```
9
```

```
(kali@kali)-[~/labAssignment]
```

```
$ vim ArrayDifference.sh
```

```
Error detected while processing /home/kali/.vimrc:
```

```
line 2:
```

```
E518: Unknown option: tapstop=4
```

```
Press ENTER or type command to continue
```

```
(kali@kali)-[~/labAssignment]
```

```
$ bash ArrayDifference.sh
```

```
min=1
```

```
max=10
```

```
difference is: 9
```

Auto capture keyboard ...

```
(kali㉿kali)-[~/labAssignment]
```

```
$ vim parentChild.c
```

```
Error detected while processing /home/kali/.vimrc:
```

```
line    2:
```

```
E518: Unknown option: tapstop=4
```

```
Press ENTER or type command to continue
```

```
1 #include<stdio.h>
2 #include<unistd.h>
3 #include<stdlib.h>
4 #include<sys/wait.h>
5
6 int main()
7 {
8
9     int i;
10    int ret;
11    ret=fork();
12    printf("Fork() called→ child created");
13    printf("\n");
14    printf("child process executing task.....");
15    printf("\n");
16
17    if(ret==0)
18    {
19        int arr[5]={10,20,15,30,5};
20
21        for(i=0;i<6;i++)
22        {
23            printf("%d", arr[i]);
24            printf("\n");
25        }
26    }
```

"parentChild.c" 38L, 493B

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Auto capture keyboard ...

```
(kali㉿kali)-[~/labAssignment]  
$ gcc -o parentChild.out parentChild.c
```

```
(kali㉿kali)-[~/labAssignment]  
$ ./parentChild.out
```

```
Fork() called→ child created  
child process executing task.....
```

```
Fork() called→ child created  
child process executing task.....
```

```
10  
20  
15  
30  
5  
0
```