

Operating Systems – OS

Lab Task 05 (OS-005)



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Faculty of Computing

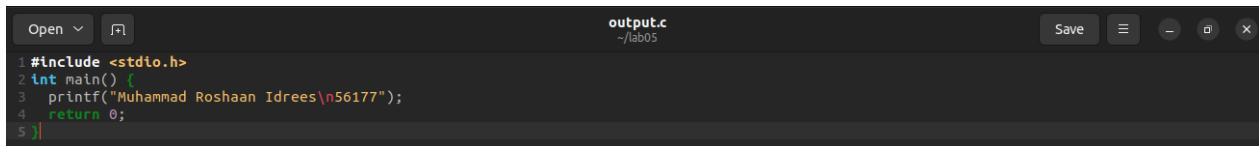
Lab Tasks

C Programs

Task 01

Solution:

```
muhammadroshaanidrees56177@Ubuntu:~$ cd lab05
muhammadroshaanidrees56177@Ubuntu:~/lab05$ touch output.c
muhammadroshaanidrees56177@Ubuntu:~/lab05$ cat>output.c
#include <stdio.h>
int main() {
    printf("Muhammad Roshaan Idrees\n56177");
    return 0;
}
muhammadroshaanidrees56177@Ubuntu:~/lab05$ gcc output.c -o output
muhammadroshaanidrees56177@Ubuntu:~/lab05$ ./output
Muhammad Roshaan Idrees
56177muhammadroshaanidrees56177@Ubuntu:~/lab05$
```



A screenshot of a code editor window titled "output.c" located in the "/lab05" directory. The window has standard OS X-style controls at the top. The code editor displays the following C program:

```
1 #include <stdio.h>
2 int main() {
3     printf("Muhammad Roshaan Idrees\n56177");
4     return 0;
5 }
```

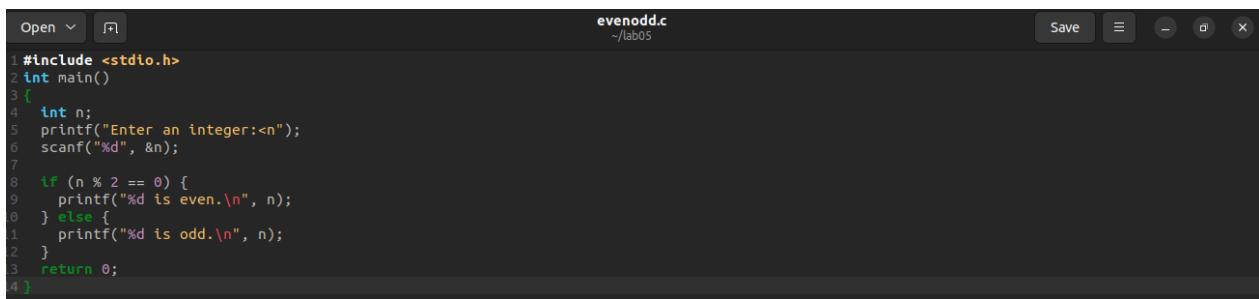
Task 02**Solution:**

```

muhammadroshaanidrees56177@Ubuntu:~/lab05$ touch evenodd.c
muhammadroshaanidrees56177@Ubuntu:~/lab05$ ls
evenodd.c  file1.txt  file2.txt  file3.txt  output  output.c
muhammadroshaanidrees56177@Ubuntu:~/lab05$ cat>evenodd.c
#include <stdio.h>
int main()
{
    int n;
    printf("Enter an integer:\n ");
    scanf("%d", &n);

    if (n % 2 == 0) {
        printf("%d is even.\n", n);
    } else {
        printf("%d is odd.\n", n);
    }
    return 0;
}
muhammadroshaanidrees56177@Ubuntu:~/lab05$ gcc evenodd.c -o evenodd
muhammadroshaanidrees56177@Ubuntu:~/lab05$ ls
evenodd  evenodd.c  file1.txt  file2.txt  file3.txt  output  output.c
muhammadroshaanidrees56177@Ubuntu:~/lab05$ ./evenodd
Enter an integer:
4
4 is even.
muhammadroshaanidrees56177@Ubuntu:~/lab05$ ./evenodd
Enter an integer:
3
3 is odd.
muhammadroshaanidrees56177@Ubuntu:~/lab05$ █

```



The screenshot shows a terminal window with the following details:

- File: evenodd.c
- Path: ~/lab05
- Code Content:

```

1 #include <stdio.h>
2 int main()
3 {
4     int n;
5     printf("Enter an integer:<n");
6     scanf("%d", &n);
7
8     if (n % 2 == 0) {
9         printf("%d is even.\n", n);
10    } else {
11        printf("%d is odd.\n", n);
12    }
13    return 0;
14 }
```
- Buttons: Open, Save, Minimize, Maximize, Close.

Java Program

Task 03

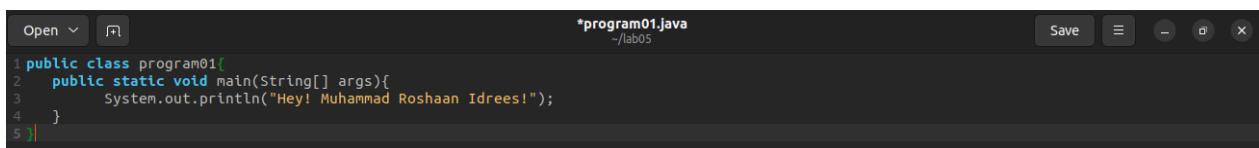
Solution:

```
muhammadroshaanidrees56177@Ubuntu:~/lab05$ java -version
openjdk version "11.0.28" 2025-07-15
OpenJDK Runtime Environment (build 11.0.28+6-post-Ubuntu-1ubuntu122.04.1)
OpenJDK 64-Bit Server VM (build 11.0.28+6-post-Ubuntu-1ubuntu122.04.1, mixed mode, sharing)
muhammadroshaanidrees56177@Ubuntu:~/lab05$ date
Tue 23 Sep 20:43:34 PKT 2025
muhammadroshaanidrees56177@Ubuntu:~/lab05$ date +%r
8:44:07 pm PKT
muhammadroshaanidrees56177@Ubuntu:~/lab05$ date +%d
23
muhammadroshaanidrees56177@Ubuntu:~/lab05$ date +%m
09
muhammadroshaanidrees56177@Ubuntu:~/lab05$ date +%Y
2025
```

Task 04

Solution:

```
muhammadroshaanidrees56177@Ubuntu:~/lab05$ touch program01.java
muhammadroshaanidrees56177@Ubuntu:~/lab05$ cat>program01.java
muhammadroshaanidrees56177@Ubuntu:~/lab05$ java program01.java
Hey! Muhammad Roshaan Idrees!
```



The screenshot shows a Java code editor window with the following code in the file `program01.java`:

```
1 public class program01{
2     public static void main(String[] args){
3         System.out.println("Hey! Muhammad Roshaan Idrees!");
4     }
5 }
```