



Name: Sitara Rehman

Sap: 66454

Lab: 06

Submitted to : Maam Ayesha Akram

Operating System

Task: 01

```
warranty; not even for MERCHANTABILITY or FITNESS FOR  
[node1] (local) root@192.168.0.23 ~  
$ echo '#include <stdio.h>  
  
int main() {  
    printf("My Name: Sitara Rehman\n");  
    printf("SAP ID: 66454\n");  
    return 0;  
}' > tasks.c  
[node1] (local) root@192.168.0.23 ~  
$ gcc tasks.c -o tasks  
[node1] (local) root@192.168.0.23 ~  
$ ./tasks  
My Name: Sitara Rehman  
SAP ID: 66454  
[node1] (local) root@192.168.0.23 ~  
$
```

TASK:02

```
$ ^C
[node1] (local) root@192.168.0.23 ~
$ echo '#include <stdio.h>'

int main() {
    int num;
    printf("Enter a number: ");
    scanf("%d", &num);

    if (num % 2 == 0) {
        printf("The number %d is Even.\n", num);
    } else {
        printf("The number %d is Odd.\n", num);
    }
    return 0;
}' > even_odd.c
[node1] (local) root@192.168.0.23 ~
$ gcc even_odd.c -o even_odd
```

```
        printf("The number %d is Even.\n", num);
    } else {
        printf("The number %d is Odd.\n", num);
    }
    return 0;
}' > even_odd.c
[node1] (local) root@192.168.0.23 ~
$ gcc even_odd.c -o even_odd
[node1] (local) root@192.168.0.23 ~
$ ./even_odd
5
Enter a number: The number 5 is Odd.
[node1] (local) root@192.168.0.23 ~
$
```

TASK:03

```
$ echo '#include <stdio.h>'

int main() {
    int num, fact = 1, i;

    printf("Enter a number: ");
    scanf("%d", &num);

    i = num;
    while (i > 0) {
        fact *= i;
        i--;
    }

    printf("Factorial of %d is %d\n", num, fact);
    return 0;
}' > factorial.c
[node1] (local) root@192.168.0.23 ~
```

```

    printf("Factorial of %d is %d\\n", num, fact);
    return 0;
}' > factorial.c
[node1] (local) root@192.168.0.23 ~
$ gcc factorial.c -o factorial
[node1] (local) root@192.168.0.23 ~
$ ./factorial
6
Enter a number: Factorial of 6 is 720\\n[node1] (local) root@192.168.0.23 ~
$ ^C
[node1] (local) root@192.168.0.23 ~
$ █

```

TASK:04

```

# The PWD team.
#####
[node3] (local) root@192.168.0.21 ~
$ echo '#include <stdio.h>'

int main() {
    while (1) {
        printf("SITARA REHMAN\\n");
    }
    return 0;
}' > infinite_loop.c
[node3] (local) root@192.168.0.21 ~
$ gcc infinite_loop.c -o infinite_loop
[node3] (local) root@192.168.0.21 ~

```

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SITARA R^C
[node3] (local) root@192.168.0.21 ~
$ ^C
[node3] (local) root@192.168.0.21 ~

```

TASK:05

```
[node3] (local) root@192.168.0.21 ~
$ echo '#include <stdio.h>

int main() {
    float num1, num2, num3, average;

    printf("Enter three numbers: ");
    scanf("%f %f %f", &num1, &num2, &num3);

    average = (num1 + num2 + num3) / 3;

    printf("The average of %.2f, %.2f, and %.2f is: %.2f\n", num1, num2, num3, average);
    return 0;
}' > average.c
[node3] (local) root@192.168.0.21 ~
$ ^C
[node3] (local) root@192.168.0.21 ~
$ gcc average.c -o average
```

```
[node3] (local) root@192.168.0.21 ~
$ gcc average.c -o average
[node3] (local) root@192.168.0.21 ~
$ ./average
6 6 7
67
89
78
Enter three numbers: The average of 67.00, 89.00, and 78.00 is: 78.00\nbash: 6: command not found
[node3] (local) root@192.168.0.21 ~
$ ./average
56
67
78
Enter three numbers: The average of 56.00, 67.00, and 78.00 is: 67.00\n[node3] (local) root@192.168.0.21 ~
$ ^C
[node3] (local) root@192.168.0.21 ~
$
```
