Programming assignment

Name: Fahim Muntashir

ID: 2021183642

Section: 02

1. **df** command:

Code:

```
#include <stdlib.h>
#include <stdio.h>

int main()

{
    system("df");
    return 0;
```

Output screenshot:

```
(base) fizr@fahlw:/media/fizr/Documents/9th Senester/CSE32/AssignmentS gcc df_command.c -o first (base) fizr@fahlw:/media/fizr/Documents/9th Senester/CSE32/AssignmentS ./first Filesystem IX-blocks Used Available UseX Mounted on the Senester/CSE32/AssignmentS ./first Filesystem IX-blocks Used Available UseX Mounted on the Senester/CSE32/AssignmentS ./first Filesystem IX-blocks Used Available UseX Mounted on the Senester/CSE32/AssignmentS ./first Filesystem IX-blocks Used Available UseX Mounted on the Senester/CSE32/AssignmentS ./first Filesystem IX-blocks Used Available UseX Mounted On the Senester/CSE32/AssignmentS ./first Filesystem IX-blocks Used Available UseX Mounted On the Senester/CSE32/AssignmentS ./first Filesystem IX-blocks UseX Mounted On the Senester IX-blocks UseX Mounted On the Se
```

2. du command

Code:

```
#include <stdlib.h>
#include <stdio.h>
int main()

{
    system("du");
    return 0;
}
```

Output screenshot:

3. grep command

Code:

```
#include <stdlib.h>
#include <stdio.h>
int main()

{
    system("grep system df_command.c");
    return 0;
}
```

Output screenshot:

```
f12r@fahim: /media/f12r/Documents/9th Semester/CSE323/Assignment

(base) f12r@fahim: /media/f12r/Documents/9th Semester/CSE323/Assignment$ gcc -o third grep_command.c

(base) f12r@fahim: /media/f12r/Documents/9th Semester/CSE323/Assignment$ ./third

system("df");

(base) f12r@fahim: /media/f12r/Documents/9th Semester/CSE323/Assignment$
```

4. **lpr** command:

Code:

```
#include <stdlib.h>
#include <stdio.h>
int main()

{
    system("lpr df_command.c");
    return 0;
}
```

Output screenshot:

5. passwd command

Code:

```
#include <stdlib.h>
#include <stdio.h>
int main()
```

```
{
  system("passwd");
  return 0;
}
```

Output screenshot:

6. tail command:

```
Code:
```

```
#include <stdlib.h>
#include <stdio.h>
int main()

{
    system("tail -n 2 df_command.c");
    return 0;
}
```

Output screenshot:

```
f12r@fahim:/media/f12r/Documents/9th Semester/CSE323/Assignment

[base) f12r@fahim:/media/f12r/Documents/9th Semester/CSE323/Assignment$ gcc tail_command.c -o sixth

[base) f12r@fahim:/media/f12r/Documents/9th Semester/CSE323/Assignment$ ./sixth

return 0;

}
[base) f12r@fahim:/media/f12r/Documents/9th Semester/CSE323/Assignment$
```

7. diff command:

Code:

```
#include <stdlib.h>
#include <stdio.h>
int main()

{
    system("diff df_command.c du_command.c");
    return 0;
}
```

Output screenshot:

```
f12r@fahim: /media/f12r/Documents/9th Semester/CSE323/Assignment Q = - □ &

(base) f12r@fahim: /media/f12r/Documents/9th Semester/CSE323/Assignment$ gcc diff_command.c -o seventh

(base) f12r@fahim: /media/f12r/Documents/9th Semester/CSE323/Assignment$ ./seventh

7c7

< system("df");

- system("du");

(base) f12r@fahim: /media/f12r/Documents/9th Semester/CSE323/Assignment$ ■
```

8. top command:

Code:

```
#include <stdlib.h>
#include <stdio.h>
int main()

{
    system("top");
    return 0;
}
```

Output screenshot:

```
f12r@fahim: /media/f12r/Documents/9th Semester/CSE323/Assignment
                                                                                                                                                Q = - 0
(base) f12r@fahim:/media/f12r/Documents/9th Semester/CSE323/Assignment$ gcc top_command.c -o eighth (base) f12r@fahim:/media/f12r/Documents/9th Semester/CSE323/Assignment$ ./eighth
top - 23:28:04 up 1:11, 1 user, load average: 0.52, 0.74, 0.82
Tasks: 300 total, 2 running, 298 sleeping, 0 stopped, 0 zombie
%Cpu(s): 2.7 us, 0.7 sy, 0.0 ni, 96.6 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 11734.9 total, 3659.7 free, 3979.0 used, 4096.2 buff/cache
MiB Swap: 2048.0 total, 2048.0 free, 0.0 used. 6570.0 avail Mem
    PID USER
                       PR NI VIRT RES SHR S %CPU %MEM
                                                                                       TIME+ COMMAND
   2125 f12r
                         20 0 692060 125952 87488 R 5.6 1.0 2:10.30 Xorg
                              0 5664588 317900 115140 S 5.6 2.6
                                                                                       3:33.51 gnome-shell
                                                                                       0:00.49 gnome-terminal-
  14014 f12r
                        20
                               0 12328 4048
                                                          3396 R 5.6 0.0 0:00.07 top
                               0 168220 12204 8396 S 0.0 0.1 0:01.92 systemd
        1 root
top - 23:28:19 up 1:11, 1 user, load average: 0.64, 0.75, 0.82
```

9. **ifconfig** command:

Code:

```
#include <stdlib.h>
#include <stdio.h>
int main()

{
    system("ifconfig");
    return 0;
}
```

Output screenshot:

```
f12r@fahim:/media/f12r/Documents/9th Semester/CSE323/Assignment Q = -

(base) f12r@fahim:/media/f12r/Documents/9th Semester/CSE323/Assignment$ gcc ifconfig_command.c -o ninth
(base) f12r@fahim:/media/f12r/Documents/9th Semester/CSE323/Assignment$ ./ninth
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6::1 prefixlen 128 scopeid 0x10<hoodshot>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 1837 bytes 194724 (194.7 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1837 bytes 194724 (194.7 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlo1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.15 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::330d:5c77:6bed:f71e prefixlen 64 scopeid 0x20link>
    ether 18:47:3d:80:1e:03 txqueuelen 1000 (Ethernet)
    RX packets 358729 bytes 301036664 (301.0 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 181570 bytes 40092884 (40.0 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

10. wget command:

Code:

```
#include <stdlib.h>
#include <stdlib.h>
int main()

{
    system("wget https://fahimmuntashir.com/");
    return 0;
}
```

Output screenshot:

-----end-----