

## **Assignment-8**

11. User-defined functions are reusable code blocks. Example:

```
function greet() { echo "Hello"; }  
greet
```

12. Multiply function:

```
multiply() { echo $(( $1 * $2 )); }  
multiply 4 5
```

13. Arrays:

arr=(1 2 3), 2D arrays via nested lists, 3D arrays simulated with associative arrays.

14. Display elements:

```
for i in "${arr[@]}"; do echo $i; done
```

15. Cron automates repetitive tasks.

16. Cron job example:

```
0 0 * * * /path/to/backup.sh
```

17. One-time job using 'at':

```
echo "script.sh" | at 10:00
```

18. Disk usage:

```
df -h; du -h
```

19. Log output:

```
./script.sh | tee logfile.txt
```

20. Automation example:

A script that backs up data, updates packages, and sends logs automatically.

*Linux Assignment - Assignment-8*

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