

## EXPERIMENT- 05

QUES1:

```
localhost:~# vi testwhile.sh
```

```
#!/bin/bash
var=0
while [ $var -lt 10 ]
do
echo "The current value: $var is less than 10"
((var++))
done
```

```
localhost:~# ./testwhile.sh
The current value: 0 is less than 10
The current value: 1 is less than 10
The current value: 2 is less than 10
The current value: 3 is less than 10
The current value: 4 is less than 10
The current value: 5 is less than 10
The current value: 6 is less than 10
The current value: 7 is less than 10
The current value: 8 is less than 10
The current value: 9 is less than 10
```

QUES 2:

```
localhost:~# vi testwhile2.sh
```

```
#!/bin/bash
while IFS= read -r line; do
echo "$line"
done < "/etc/passwd"
```

```
localhost:~# ./testwhile2.sh
root:x:0:0:root:/root:/bin/ash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/mail:/sbin/nologin
news:x:9:13:news:/usr/lib/news:/sbin/nologin
uucp:x:10:14:uucp:/var/spool/uucppublic:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
man:x:13:15:man:/usr/man:/sbin/nologin
postmaster:x:14:12:postmaster:/var/mail:/sbin/nologin
cron:x:16:16:cron:/var/spool/cron:/sbin/nologin
ftp:x:21:21::/var/lib/ftp:/sbin/nologin
sshd:x:22:22:sshd:/dev/null:/sbin/nologin
at:x:25:25:at:/var/spool/cron/atjobs:/sbin/nologin
squid:x:31:31:Squid:/var/cache/squid:/sbin/nologin
xfs:x:33:33:X Font Server:/etc/X11/fs:/sbin/nologin
games:x:35:35:games:/usr/games:/sbin/nologin
cyrus:x:85:12::/usr/cyrus:/sbin/nologin
vpopmail:x:89:89::/var/vpopmail:/sbin/nologin
ntp:x:123:123:NTP:/var/empty:/sbin/nologin
smmsp:x:209:209:smmsp:/var/spool/mqueue:/sbin/nologin
guest:x:405:100:guest:/dev/null:/sbin/nologin
nobody:x:65534:65534:nobody:/:/sbin/nologin
dhcp:x:100:101:dhcp:/var/lib/dhcp:/sbin/nologin
svn:x:101:102:svn:/var/svn:/sbin/nologin
```

QUES 3:

```
localhost:~# vi testwhile3.sh
```

```
#!/bin/bash
app_name=("Apache" "Mysql" "Nginx" "Mysql" "php")
var=0
while [ $var -lt ${#app_name[@]} ]; do
j=0
while [ $j -lt ${#app_name[@]} ]; do
if [ $var -ne $j ]; then
echo "pair : ${app_name[$var]} and ${app_name[$j]}"
fi
((j++))
done
((var++))
done
```

```
localhost:~# ./testwhile3.sh
pair : Apache and Mysql
pair : Apache and Nginx
pair : Apache and Mysql
pair : Apache and php
pair : Mysql and Apache
pair : Mysql and Nginx
pair : Mysql and Mysql
pair : Mysql and php
pair : Nginx and Apache
pair : Nginx and Mysql
pair : Nginx and Mysql
pair : Nginx and php
pair : Mysql and Apache
pair : Mysql and Mysql
pair : Mysql and Nginx
pair : Mysql and php
pair : php and Apache
pair : php and Mysql
pair : php and Nginx
pair : php and Mysql
```