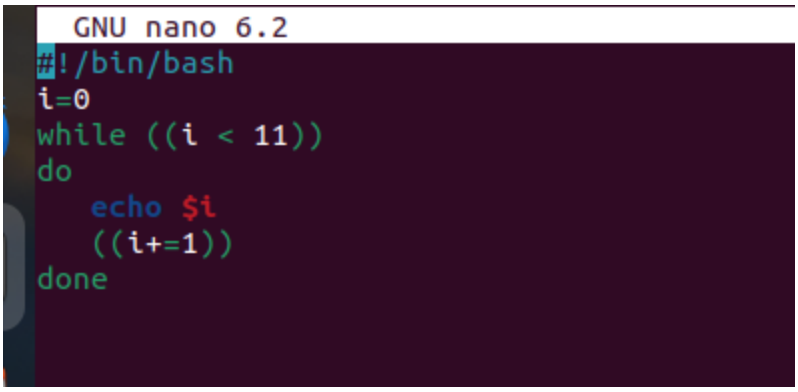
Qno#1

```
  GNU nano 6.2
#!/bin/bash
i=0
while ((i < 11))
do
   echo $i
   ((i+=1))
done
```

Output

```
student@student-virtual-machine:~$ pico for.sh
student@student-virtual-machine:~$ ./for.sh
1
2
3
4
5
```

QNO#2


GNU nano 6.2
#!/bin/bash
i=0
while ((i < 11))
do
echo $i
((i+=1))
done

OUTPUT

```
student@student-virtual-machine:~$ pico while.
student@student-virtual-machine:~$ ./while.sh
0
1
2
3
4
5
6
7
8
9
10
```

Qno#3

```
  GNU nano 6.2
#!/bin/bash

for (( i=1; i<4; i++ ))
do
  for (( j=1; j<11; j++ ))
  do
    result=$(( i * j ))
    echo "$i * $j = $result"
  done
done
```

Output

```
student@student-virtual-machine:~$ pico nest.sh
student@student-virtual-machine:~$ ./nest.sh
1 * 1 = 1
1 * 2 = 2
1 * 3 = 3
1 * 4 = 4
1 * 5 = 5
1 * 6 = 6
1 * 7 = 7
1 * 8 = 8
1 * 9 = 9
1 * 10 = 10
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
2 * 10 = 20
3 * 1 = 3
3 * 2 = 6
3 * 3 = 9
3 * 4 = 12
3 * 5 = 15
3 * 6 = 18
3 * 7 = 21
3 * 8 = 24
3 * 9 = 27
3 * 10 = 30
```

QNO#4

```
  GNU nano 6.2
#!/bin/bash

fruits=("apple" "banana" "cherry")

for fruit in "${fruits[@]}"; do
  echo "$fruit"
done
```

OUTPUT

```
student@student-virtual-machine:~$ pico forin.sh
student@student-virtual-machine:~$ ./forin.sh
apple
banana
cherry
```

Qno#5

```
#!/bin/bash
while true; do
  read input
  if [[ "$input" == "exit" ]]; then
    break
  else
    echo "You entered: $input"
  fi
done
```

OUTPUT

```
student@student-virtual-machine:~$ pico exist.sh
student@student-virtual-machine:~$ ./exist.sh
exit
```