

OPEARTING SYSTEM

Experiment No. 02

AIM → Write a program in shell for printing table of any number.

Theory →

As most programming languages have the concept of loops, shell programming language is not different from the tradition.

If we want to repeat a task multiple times, we won't be taking efforts to type the code for multiple times, using loops thing can be made far easy.

We have for and while loops in shell programming language.

for loop →

Syntax →

```
#!/bin/sh
```

```
for i in 1 2 3 4 5
```

```
do
```

```
    echo "Looping $i"
```

```
done
```

while loop →
syntax →

Not page →

While loop →

```
# !/bin/sh
```

```
INPUTSTRING = hello
```

```
while [ "$INPUTSTRING" != "bye" ]
```

```
do
```

```
    echo "please type her"
```

```
    read INPUTSTRING
```

```
    echo "you typed : $INPUTSTRING"
```

```
done.
```

Conclusion →

Thus, we learnt the printing methods in shell programming language, and successfully printed table of any number.

Program codes:

```
echo "Enter NO.:"  
read no  
echo "Enter range:"  
read r  
i=1  
  
while test $i -le $r  
do  
    temp=`expr $no \* $i`  
    echo "$no * $i = $temp"  
    i=`expr $i + 1`  
  
done
```

Program Output:

```
→ Practical codes git:(master) bash Table.sh
Enter NO.:
7
Enter range:
10
7 * 1 = 7
7 * 2 = 14
7 * 3 = 21
7 * 4 = 28
7 * 5 = 35
7 * 6 = 42
7 * 7 = 49
7 * 8 = 56
7 * 9 = 63
7 * 10 = 70
```