Exp – 3a):

AIM: To write a Shell script to reverse a given digit using looping statement.

PROGRAM:

```
read num
val=0
while [ $num -ne 0 ]
do
        d=$((num % 10))
        val=$(((val*10)+d))
        num=$((num/10))
done
echo $val
```

OUTPUT:

```
jagadesh@LAPTOP-33VRBQ67:/mnt/c/Users/Parthiban/OS Exps/shell$ sh reverse.sh
1234
4321
```

Exp – 3b):

AIM: To write a Shell script to generate a Fibonacci series using for loop.

PROGRAM:

```
read n
a=0
b=1
echo -n "$a $b "
for i in $(seq 2 $(($n-1)))
do
        fib=$((a+b))
        echo -n "$fib "
        a=$b
        b=$fib
done
```

OUTPUT:

```
jagadesh@LAPTOP-33VRBQ67:/mnt/c/Users/Parthiban/OS Exps/shell$ sh fibo.sh
5
0 1 1 2 3 jagadesh@LAPTOP-33VRBQ67:/mnt/c/Users/Parthiban/OS Exps/shell$ |
```