Program 10: Shell script to print the combination of numbers 1 2 3

```
#!/bin/sh
for i in 1 2 3
do
for j in 1 2 3
do
for k in 1 2 3
do
echo "$i $j $k"
done
done
done
```

```
bash: /opt/ros/noetic/setup.bash: No such file or directory
bash: /opt/ros/noetic/setup.bash: No such file or directory
bmsce@bmsce-Precision-T1700:~$ nano progm10.sh
bmsce@bmsce-Precision-T1700:~$ sh progm10.sh

1 1 1
1 1 2
1 1 3
1 2 1
1 2 2
1 2 3
1 3 1
1 3 2
1 3 3
2 1 1
2 1 2
2 1 2
2 2 2
2 3 3
3 1 1
3 1 2
3 2
3 3 3
3 1 1
3 1 2
3 1 3
3 2 1
3 2 2
3 3 3 3 1
3 3 2 1
3 3 2 2
3 3 3 3 1
3 3 2 2
3 3 3 3 1
3 3 2 3
3 3 3 1
3 3 2 3
3 3 3 1
3 3 2 3
3 3 3 1
```

### Program 11: Shell script to find power of a number

```
bmsce@bmsce-Precision-T1700:~

bash: /opt/ros/noetic/setup.bash: No such file or directory bash: /opt/ros/noetic/setup.bash: No such file or directory bmsce@bmsce-Precision-T1700:~$ nano progm11.sh

bmsce@bmsce-Precision-T1700:~$ sh progm11.sh

Enter the number x:2

Enter the power n:2

Power : 4

bmsce@bmsce-Precision-T1700:~$ sh progm11.sh

Enter the number x:2

Enter the power n:4

Power : 16

bmsce@bmsce-Precision-T1700:~$
```

# Program 12: Shell Script to find the sum of n natural numbers

```
bmsce@bmsce-Precision-T1700:~$ sh progm12.sh
Enter the number:4
Sum:10
bmsce@bmsce-Precision-T1700:~$ sh progm12.sh
Enter the number:6
Sum:21
bmsce@bmsce-Precision-T1700:~$
```

Program 13: Shell Script to find Fibonacci Series upto n

```
bmsce@bmsce-Precision-T1700:~$ nano fibi.sh
bmsce@bmsce-Precision-T1700:~$ sh fibi.sh
enter a number
3
0
1
1
2
3
bmsce@bmsce-Precision-T1700:~$ sh fibi.sh
enter a number
2
0
1
1
2
bmsce@bmsce-Precision-T1700:~$
```