

A terminal window titled "Terminal" with a dark background. The window shows a series of commands and their outputs. The user has set permissions for a script and then executed it, providing the input '10'. The script outputs the factorial of 10, which is 3628800.

```
Activities Terminal May 10 06:45 mca@localhost:~/Desktop
File Edit View Search Terminal Help
[mca@localhost Desktop]$ chmod +x factorial.sh
[mca@localhost Desktop]$ ./factorial.sh
Enter the number:10
3628800
[mca@localhost Desktop]$
```

ActivitiesText EditorMay 10 06:45

Openfactorial.sh~/DesktopSave

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```
#!/bin/bash
factorial()
{
    local=$1
    if((local<=2)); then
        echo $local
    else
        f=$((local - 1))
        f=$(factorial $f)
        f=$((f*local))
        echo $f
    fi
}
read -p "Enter the number:" n
if((n==0)); then
    echo 1
else
    factorial $n
fi
```

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