

## Create a script

```
$ cat >paris-time
#!/bin/sh
TZ=Europe/Paris date # Display date in a given time zone

$ sh paris-time # Invoke the shell to run the script
Fri Feb 21 06:59:59 CET 2020
$ date
Fri Feb 21 08:00:05 EET 2020
$ chmod +x paris-time # Make script executable
$ ./paris-time # Run it by specifying its path (current directory)
Fri Feb 21 07:00:13 CET 2020
$ PATH=$PATH:. # Add current directory to path
$ paris-time # Run it without specifying a path
Fri Feb 21 07:00:29 CET 2020
$ mkdir $HOME/bin # Create directory for executables
$ PATH=$PATH:$HOME/bin # Add directory to path
$ mv paris-time $HOME/bin # Move script to directory
$ cd /tmp # Change to another directory
$ paris-time # Execute script while in any directory
Fri Feb 21 07:01:21 CET 2020
$
```

## Argument handling

```
$ cat >any-time
#!/bin/sh
echo -n "The time in $1 is: " # Use first argument
TZ=$1 date

$ sh any-time Europe/Amsterdam # Pass argument to script
The time in Europe/Amsterdam is: Fri 21 Feb 2020 11:36:13 AM CET
$ sh any-time America/Los_Angeles
The time in America/Los_Angeles is: Fri 21 Feb 2020 02:36:22 AM PST
$ sh any-time Europe/Athens
The time in Europe/Athens is: Fri 21 Feb 2020 12:36:40 PM EET
$
```

## Shell functions

```
$ showtime() # Define function
> {
>   local TZIN=$1 # Local variables initialized from arguments
>   local TZOUT=$2
>   local TIME=$3
>   echo -n "$TZIN $TIME is $TZOUT "
>   TZ=$TZOUT date --date="TZ=\"${TZIN}\" $TIME"
> }
$ showtime America/New_York Asia/Kolkata 11:45 # Call function
America/New_York 11:45 is Asia/Kolkata Fri 21 Feb 2020 10:15:00 PM IST
$
```