

If statements

Created using Maple 14.01

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```
> restart;
with(StringTools) :
FormatTime("%m-%d-%Y, %H:%M");
"08-04-2012, 13:53" (1)
```

Here is a simple conditional **if** statement

```
> ans := "y" :
if ans = "y" then;
    print("yes");
else;
    print("no");
end if;
"yes" (2)
```

```
> ans := "x" :
if ans = "y" then;
    print("yes");
else;
    print("no");
end if;
"no" (3)
```

In the above **if** statement the only "y" produces a "yes", any other entry results in "no". Suppose that you only want to accept "y" and "n" as valid responses. Including an **elif** (short for **else if**) condition as done below produces the desired results.

```
> ans := "y" :
if ans = "y" then;
    print("yes");
elif ans = "n" then;
    print("no");
else;
    print("invalid response");
end if;
"yes" (4)
```

```
> ans := "n" :
if ans = "y" then;
    print("yes");
elif ans = "n" then;
    print("no");
else;
    print("invalid response");
end if;
"no" (5)
```

```
> ans := "x" :
if ans = "y" then;
    print("yes");
```

```
elif ans = "n" then;
    print("no");
else;
    print("invalid response");
end if;
```

"invalid response"

(6)

