

# “if else” in R

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Here are several examples to show the usage of “if else” in R.

When “if else” is not in a function or a loop environment(for,while), the ”else” should never start a new line! See **ex-1**, ”else” starts a new line, so there is an error. The correct usage in this situation is shown in **ex-5** to **ex-7**.

But when “if else” is in a function or a loop, ”else” can start a new line! See **ex-2** to **ex4**, even ”else” starts a new line it runs well.

```
> ###ex-1###
> x=0.8
> if(x<=0.5)
+   y = 0
> else
Error: unexpected 'else' in "else"
>   y = 1
> y
[1] 1
>
> ###ex-2###
> f <- function(x=0.8){
+   if(x<=0.5)
+     y = 0
+   else
+     y = 1
+   y
+ }
> f()
[1] 1
>
>
> ###ex-3###
> for(i in 1:10){
+   if(i <= 5)
+     y = 0
+   else
+     y = i
+ }
> y
[1] 10
>
```

```
> ###ex-4###
> i=1
> while(i < 10){
+   i = i + 1
+   if(i <= 5)
+     y = 0
+   else
+     y = i
+ }
> y
[1] 10
>
>
> ###ex-5###
> if(x<=0.5)
+   y = 0 else
+   y = 1
> y
[1] 1
>
> ###ex-6###
> if(x<=0.5) y = 0 else
+   y = 1
> y
[1] 1
>
> ###ex-7###
> if(x<=0.5) y = 0 else y = 1
> y
[1] 1
```