

R version 4.0.2 (2020-06-22) -- "Taking Off Again"
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 Platform: x86_64-w64-mingw32/x64 (64-bit)

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Natural language support but running in an English locale

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 Type 'contributors()' for more information and
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Type 'demo()' for some demos, 'help()' for on-line help, or
 'help.start()' for an HTML browser interface to help.
 Type 'q()' to quit R.

[Previously saved workspace restored]

```
> #Experiment 9
> #19bcd7143
> #Amlan Nayak
> #Slot: L1
> #mat1011
> #Date 30-11-2020
> #Testing of Hypothesis
> xbar=9900
> mu0=10000
> n=30
> sd=120
> z=(xbar-mu0)/(sd/sqrt(n))
> z
[1] -4.564355
> [1] -4.564355
Error: unexpected '[' in "["
> #P-value
> Pvalue=pnorm(z)
> Pvalue
[1] 2.505166e-06
> [1] 2.505166e-06
Error: unexpected '[' in "["
> #Pvalue is less than rejection area , so Pvalue lies in the area
> #conclusion: Reject Null hypothesis
>
> xbar=2.1
> mu0=2
> sd=0.25
> n=35
> z=(xbar-mu0)/(sd/sqrt(35))
> z
[1] 2.366432
> [1] 2.366432
Error: unexpected '[' in "["
> #pvalue
> Pvalu<-1-pnorm(z)
> Pvalu
[1] 0.008980239
> [1] 0.008980239
Error: unexpected '[' in "["
> #rejection area is greater than Pvalue
> #conclusion : Reject Null hypothesis
>
> #2 tailed Test
> xbar=14.6
> mu0=15.4
> sigma=2.5
> n=35
> z<-(xbarmu0)/(sigma/sqrt(n))
Error: object 'xbarmu0' not found
> Error: object 'xbarmu0' not found
Error: unexpected string constant in "Error: object 'xbarmu0'"
> z<-(xbar-mu0)/(sigma/sqrt(n))
```

```
> z
[1] -1.893146
> [1] -1.893146
Error: unexpected '[' in "["
> #pvalue
> pvalue<-2*pnorm(z)
> pvalue
[1] 0.05833852
> [1] 0.05833852
Error: unexpected '[' in "["
> #P value is greater than rejection area
> #Conclusion: Accept Null hypothesis
>
```