

DEMO CODE:

```
#Differentiation and Integration using Python
import sympy as sp
#from sympy import *

#To change the printing method of SymPy Live
sp.init_printing()

#Declare symbolic variables explicitly which are to be treated as symbols
x = sp.symbols('x')
y = sp.symbols('y')

#Indefinite Integration
integral = sp.integrate('1/sqrt(1-x*x)*1/sqrt(1-(1+x)**2)', x)

#Definite integration
#integral = sp.integrate('x**2 + x + 1', (x,0,1))

#Pretty print demo
sp.pprint(sp.Integral(x**2 + x + 1, x))
print('=')
print(integral)

#Differentiation
derivative = sp.diff('sin(x)', x)

print(derivative)
```

YouTube Tutorial



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I'm a physicist specializing in computational material science with a PhD in Physics from Friedrich-Schiller University Jena, Germany. I write efficient codes for simulating light-matter interactions at atomic scales. I like to develop Physics, DFT, and Machine Learning related apps and software from time to time. Can code in most of the popular languages. I like to share my knowledge in Physics and applications using this Blog and a YouTube channel.

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