```
def General_Lorentz_Tranformation():
    Print_Function()
    (alpha, beta, gamma) = symbols('alpha beta gamma')
    (x,y,z,t) = symbols("x y z t", real=True)
    (st4d, g0, g1, g2, g3) = Ga. build('gamma*t | x | y | z', g=[1,-1,-1,-1])
    B = (x*g1+y*g2+z*g3)^(t*g0)
    print B
    print B.exp(hint='+')
    print B.exp(hint='-')
```

Code Output:

$$-tx\gamma_t \wedge \gamma_x - ty\gamma_t \wedge \gamma_y - tz\gamma_t \wedge \gamma_z$$

$$\cosh\left(\sqrt{x^{2}+y^{2}+z^{2}}|t|\right) - \frac{tx\sinh\left(\sqrt{x^{2}+y^{2}+z^{2}}|t|\right)}{\sqrt{x^{2}+y^{2}+z^{2}}|t|}\gamma_{t} \wedge \gamma_{x} - \frac{ty\sinh\left(\sqrt{x^{2}+y^{2}+z^{2}}|t|\right)}{\sqrt{x^{2}+y^{2}+z^{2}}|t|}\gamma_{t} \wedge \gamma_{y} - \frac{tz\sinh\left(\sqrt{x^{2}+y^{2}+z^{2}}|t|\right)}{\sqrt{x^{2}+y^{2}+z^{2}}|t|}\gamma_{t} \wedge \gamma_{z}$$

$$\cosh\left(\sqrt{x^{2}+y^{2}+z^{2}}|t|\right) - \frac{tx\sinh\left(\sqrt{x^{2}+y^{2}+z^{2}}|t|\right)}{\sqrt{x^{2}+y^{2}+z^{2}}|t|}\gamma_{t} \wedge \gamma_{x} - \frac{ty\sinh\left(\sqrt{x^{2}+y^{2}+z^{2}}|t|\right)}{\sqrt{x^{2}+y^{2}+z^{2}}|t|}\gamma_{t} \wedge \gamma_{y} - \frac{tz\sinh\left(\sqrt{x^{2}+y^{2}+z^{2}}|t|\right)}{\sqrt{x^{2}+y^{2}+z^{2}}|t|}\gamma_{t} \wedge \gamma_{z}$$