In [10]:
```
from sympy import *
a= Symbol('a')
f=a**4+3*a**2+10
n=-0.001
itr=1000
i=0
fd=f.diff(a)
f=lambdify(a, f)
fd=lambdify(a, fd)
b=10
while i<itr:
    b=b+(n*fd(b))
    i=i+1
else:
    f=int(f(b))
    b=int(b)
    print("Minimum value of f(a)= "+str(f)+" at a= "+str(b))
```

```
Minimum value of f(a)= 10 at a= 0
```

In [ ]:

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