```
def hillClimbing(func, start, step = 0.01, num_iter = 2000):
    cp, cv = start, func(start)
    for _ in range(num_iter):
       npp = cp + step
        nvp = func(npp)
        npn = cp - step
        nvn = func(npn)
        if(nvp > cv and nvp >= nvn):
            cp = npp
            cv = nvp
        elif(nvn > cv and nvn > nvp):
            cp = npn
            cv = nvn
        else:
            break
    return cp, cv
func_str = input('Enter a function')
func = lambda x: eval(func_str)
v = float(input('Enter a starting value'))
pos, val = hillClimbing(func, v)
print('Maxima:', pos)
print('Max value: ', val)
Enter a starting value2
```

Maxima: 22.00000000000064 Max value: 22.0000000000064