In [5]:

```python
def power(x, y):

    if (y == 0): return 1
    elif (int(y % 2) == 0):
        return (power(x, int(y / 2)) *
                power(x, int(y / 2)))
    else:
        return (x * power(x, int(y / 2)) *
                    power(x, int(y / 2)))


x = 100; y = 2
print(power(x, y))
```

10000

In [ ]: