**Experiment-1.2**

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1. **Aim:** Code implement power function in O(logn) time complexity.
2. **Objective:** To implement power function in O(logn) time complexity.
3. **Input/Apparatus Used:** In this program , power is divided by 2 in order to get complexity in log.
4. **Procedure/Algorithm: Pseudocode:**

if(y==0):

return 1;

temp = power(x,y/2); if(y%2==0):

return temp\*temp; else

return x\*temp\*temp;

**Various possible cases**

1)The power value can be 0

2)The power value can be negative.

3)The power value can be even.

4)The power value can be odd.

1. **Code:**

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1. **Output:**

