nth power of 2

$$2n = 4$$

$$2n = 2$$

$$2 = 16$$

$$n=9$$

$$ONS = 2 \times 2 \times 2 \times 2$$

$$n \text{ time}$$

Math. pow(a,b);

It always return double answer

Yower Inbuilt for

System.out.println(ans);

public static void main(String[] args) {

Scanner scn = new Scanner(System.in);

i=0<5, an=2 i=1<5, an=9 i=2<5, an=8 i=3<5, an=16 i=4<5, an=32i=5<5 false

ons = 1

Print powers of 2 less than n

```
for(int i=1; i< n; i=i*2)
Syso(i);
  int ans = 1;
                    1, 2, 4, 8, 16, 32.
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

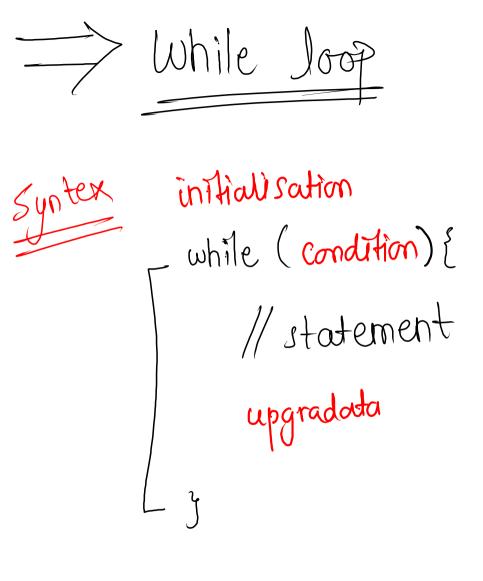
    for (int i = 1; i < n; i = i * 2) {
        System.out.print(i + " ");
    }
}</pre>
```

Multiples of 3, 5 and Both 3 and 5

$$\frac{iP}{n}$$
, $\frac{n=100}{n}$

code

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    for (int i = 1; i <= n; i++) {
        if ( i % 3 == 0 && i % 5 == 0 ) {
            System.out.print(i + " ");
        } else if ( i % 3 == 0 ) {
            System.out.print(i + " ");
        } else if ( i % 5 == 0 ) {
            System.out.print(i + " ");
```



(if a code can be wouthen using for loop then it could also be wouthen using while loop & vice-versa)

Do while

Syntex That's ation

do {
//statement
upgradation

y while (condition)

Mote:do while loop
elways run
ofleast one

time

Running Sum for loop

Running Sum for loop

