**Activity 2**

Write an algorithm for finding the decimal representation of a positive binary number.

1. **in English**

* Set integer number as Dividend
* Divide the Dividend by 2
* Continue dividing till Dividend become 0
* Take the remainders in reverse order to get the decimal representation of the binary number.

1. **in a pseudocode**

int num, B = 0;

int binary [] = new int[100];

Scanner user\_input = new Scanner (System.in);

System.out.print("Enter your decimal value : ");

num=user\_input.nextInt();

while (num!=0)

{

binary[B] = num%2;

num=num/2;

B++;

}

System.out.print("The binary value of the entered decimal value is : ");

for (int bin=B-1; bin>=0; bin--)

{

System.out.print("" + binary[bin]);

}