Algorithm

Aim: To print all composite magic numbers and their total frequency within the given range.

1). Start

2). main() – a). Input two numbers and store them in start and end as the range.

b). int count = 0;

c). if(start<end)

```
{
    System.out.print("\nComposite Magical Number are: ");
    for(int i=start ;i<=end ;i++)
    {
        int number = i;
        boolean check_composite = false;
        for(int j=2;j<=number/2;j++)
        {
            if(number%j==0)
            {
                check_composite = true;
                break;
            }
        }

        if(check_composite)
        {
            int cpy = number;
            int sum =0;
            do
            {
                sum = 0;
                while(number>0)
                {
                    int d = number%10;
```

```java
                    sum += d;
                    number/=10;
                }
                number = sum;
            }
            while(sum>9);

            if(sum == 1)
            {
                count ++;
                System.out.print(cpy+", ");
            }
        }
    }
    System.out.println("\n\nFrequency of Composite Magical Number is: "+count);

}

d). else
    {
        System.out.println("\nInput is Invalid");
    }
```

3). Stop