1. Write a program to compute the GCD and ICM of two numbers.write the algorithm of the program.

```
=#include <stdio.h>
int main()
{
  int num1,num2,a,b,gcd,lcm;
  printf("Enter the first number");
  scanf("%d",&num1);
  printf("Enter the second number");
  scanf("%d",&num2);
  a=num1;
  b=num2;
  while(b!=0)
  int remainder=a%b;
  a=b;
  b=remainder;
  gcd=a;
  lcm=(num1*num2)/gcd;
  printf("gcd of %d and %d is: %d\n",num1,num2,gcd);
  printf("Icm of %d and %d is: %d\n",num1,num2,lcm);
  return 0;
}
Output:-
Enter the first number 12
Enter the second number 18
gcd of 12 and 18 is: 6
Icm of 12 and 18 is: 36
Algorithm:-
   1. Take two integers as input.
   2. Use the while loop to repeatedly compute the remainder until it becomes 0.
```

2. Write a program to check a 4 digit no.to be divisible by 9 or not without using modules operator. Write the flowchart of the program.

```
= #include <stdio.h>
int main()
{
  int a,b,sum=0;
```

3. Then the formula (num1\*num2)/gcd.

4. Print the gcd and lcm.

```
printf("Enter the four digit number");
scanf("%d",&a);
sum=a-((a/10))*10;
if(sum==0)
{
  printf("The number is divisible 9");
}
else
{
  printf("The number is not divisible 9");
}
return 0;
}
```

## Output:-

Enter the four digit number 4320 The number is divisible 9

## Flowchart:-

