BASICS

What is a perfect number?

Perfect number is a positive integer that is equal to the sum of all its proper positive divisors excluding the number itself.

For example:

6 is a perfect number

Because the proper positive divisors of 6 are 1, 2 and 3 (excluding 6)

and sum of all its positive divisors i.e. 1 + 2 + 3 = 6

CODE

```
int number;
printf("Enter the number: ");
scanf("%d", &number);
int i, rem, sum=0;
for(i=1; i<number; i++)</pre>
  rem=number%i;
  if(rem == 0)
     sum = sum + i;
```

Iteration 1: rem = 0sum = 0 + 1 = 1Iteration 2: rem = 0sum = 1 + 2 = 3Iteration 3: rem = 0sum = 3 + 3 = 6

6