```
//27(A)Checking number is perfect or not
/*C program to check whether the given number is the Perfect number*/
#include<stdio.h>
#include<conio.h>
void main()
{
// declare and initialize the variables
int num, rem, sum = 0, i;
// take an input from the user.
printf("Enter a number\n");
scanf("%d", &num);
// find all divisors and add them
for(i = 1; i < num; i++)
                    {
                             rem = num % i;
                            if (rem == 0)
                                      {
                                               sum = sum + i;
                                       }
                        }
if (sum == num)
                     printf(" %d is a Perfect Number");
           else
                     printf("\n %d is not a Perfect Number");
getch();
}
Output:
Enter a number
28
Entered number is perfect
//27(B)Printing perfect number b/w 1 to n
/**
 * C program to print all Perfect numbers between 1 to n
 */

#include <stdio.h>

int main()
{
    int i, j, end, sum;

    /* Input upper limit to print perfect number */
    printf("Enter upper limit: ");
    scanf("%d", &end);

    printf("All Perfect numbers between 1 to %d:\n", end);

    /* Iterate from 1 to end */
    for(i=1; i<=end; i++)
    {
        sum = 0;

        /* Check whether the current number i is Perfect number or not */
        for(j=1; j<i; j++)
```

```
        {
            if(i % j == 0)
            {
                sum += j;
            }
        }

        /* If the current number i is Perfect number */
        if(sum == i)
        {
            printf("%d, ", i);
        }
    }

    return 0;
}
```