

(1) Program on Strong Numbers in C language.

```
#include <stdio.h>
int main()
{
    int num,temp,remainder,sum=0,i;
    long fact;
    printf("Enter any number to check for a
           strong Number:");
    scanf("%d",&num);
    temp = num;
    while(temp>0)
    {
        remainder = temp % 10;
        fact = 1;
        for (i=1;i<=remainder;i++)
        {
            fact *= i;
        }
        sum += fact;
        temp /= 10;
    }
    if (sum == num)
    {
        printf("%d is a STRONG NUMBER.\n",num);
    }
    else
    {
        printf("%d is NOT a STRONG NUMBER.\n",num);
    }
    return 0;
}
```

Output:-

Enter a number to check for a strong
Number: 145

strong Number.

Program on perfect numbers - prints no. of perfect numbers <= n

```
#include <stdio.h>
```

```
int is_perfect(int num);
```

```
int main()
```

```
{
```

```
    int num;
```

```
    printf("Enter a number:");
```

```
    scanf("%d", &num);
```

```
    if (is_perfect(num)) {
```

```
        printf("%d is a perfect number.\n", num);
```

```
    } else
```

```
        printf("%d is not a perfect number.\n", num);
```

```
    return 0;
```

```
}
```

```
int is_perfect(int num) {
```

```
    int sum = 0;
```

```
    for (int i = 1; i < num; i++) {
```

```
        if (num % i == 0)
```

```
{
```

```
            sum += i;
```

```
}
```

```
    return sum == num; }
```

```
}
```

```
Output:-
```

```
Enter a number: 28
```

```
28 is a perfect number.
```