

## Problem 1 :

Write a program to calculate and print the factorial of a given non-negative integer using a **do-while** loop. The user should input the number.

## Solution :-

```
#include <stdio.h>

int main() {
    int num, fact=1, i=1;
    printf("enter a number whose factorial u want to find :- ");
    scanf("%d", &num);
    do {
        fact=fact*i;
        i++;
    } while (i<=num);

    printf("factorial of %d is :- %d", num, fact);

    return 0;
}
```

## Output :-

```
enter a number whose factorial u want to find :- 5
factorial of 5 is :- 120
```

## Problem 2:

Write a program to find and print the sum of the first n even numbers using a **do-while** loop. The user should input the value of n.

## Solution :-

```
#include <stdio.h>
int main() {
    int num,sum=0,i=0;
    printf("enter a number :- ");
    scanf("%d",&num);
    do {
        sum = sum + (2*i);
        i++;
    }
    while (i<=num);
    printf("sum of given even numbers is :- %d",sum);
    return 0;
}
```

## Output :-

```
enter a number :- 6
sum of given even numbers is :- 42
```

