



EED 1005 Introduction to Programming

Laboratory#6

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Laboratory Work:

Task 1:

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

```
int triangular_number(int n){
```

```
    int results;
```

```
    results=(n*(n+1))/2;
```

```
    return results; }
```

```
int main(){
```

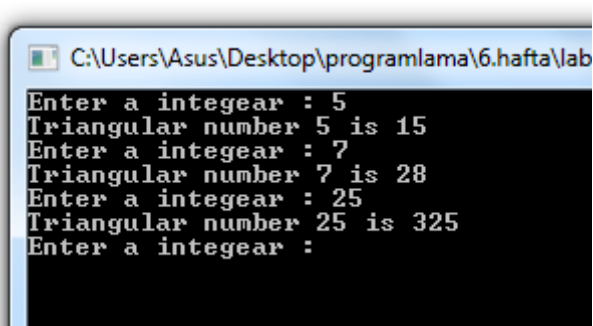
```
    int a,i=1;
```

```
    while(i==1) {
```

```
        printf("Enter a integer : "); scanf("%d",&a);
```

```
        printf("Triangular number %d is %d \n\n",a,triangular_number(a));    }
```

```
    return 0;    }
```

A screenshot of a Windows command prompt window. The title bar shows the file path "C:\Users\Asus\Desktop\programlama\6.hafta\lab". The command prompt has a black background with white text. It shows the program's output for three inputs: 5, 7, and 25. The output for each input is the input value followed by its triangular number. The prompt "Enter a integer :" is shown at the end of the last line.

```
C:\Users\Asus\Desktop\programlama\6.hafta\lab
Enter a integer : 5
Triangular number 5 is 15
Enter a integer : 7
Triangular number 7 is 28
Enter a integer : 25
Triangular number 25 is 325
Enter a integer :
```

Task 2:

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

```
int fact(int b){
```

```
    int i,result1=1;
```

```
    for(i=1;i<=b;i++){
```

```
        result1=result1*i;    }
```

```
    return result1; }
```

```
void function_binomial(int n) {
```

```
    int C,r,i,x,j;
```

```
    for(i=0;i<=n;i++){
```

```
        x=n-i;
```

```
        for(j=1;j<=x;j++){
```

```
            printf(" "); }
```

```
        for(r=0;r<=i;r++) {
```

```
            C=fact(i)/(fact(r)*fact((i-r)));
```

```
            printf("%d ",C); }
```

```
        printf("\n"); } }
```

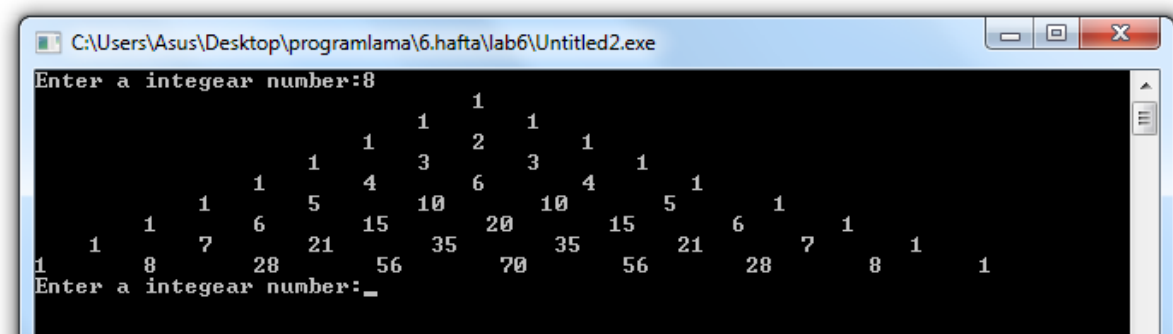
```
int main() {
```

```
    int a,i=1;
```

```
    while(i==1){
```

```
        printf("Enter a integer number:"); scanf("%d",&a);
```

```
        function_binomial(a); } }
```



```
C:\Users\Asus\Desktop\programlama\6.hafta\lab6\Untitled2.exe
Enter a integer number:8
1 8 28 56 70 56 28 8 1
Enter a integer number:
1 9 36 84 126 126 84 36 9 1
```

