

★ **PRACTICAL=18** ★

Aim:= Write a program to evaluate the series $1^2+2^2+3^2+\dots+n^2$

Filename :=series.c

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

```
#include<conio.h>
```

```
void main()
```

```
{
```

```
int n,i,sum=0;
```

```
printf("Enter the Maximum value of series : \n");
```

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

```
sum = (n * (n+1) * (2 * n+1))/6;
```

```
printf("Sum of these series : ");
```

```
for(i=1;i<=n;i++)
```

```
{
```

```
if(i!=n)
```

```
printf("%d^2 + ",i);
```

```
else
```

```
printf("%d^2 = %d",i,sum);
```

```
}
```

```
getch();
```

```
}
```

OUTPUT:

```
Enter the Maximum value of series :
```

```
9
```

```
Sum of these series : 1^2 + 2^2 + 3^2 + 4^2 + 5^2 + 6^2 + 7^2 + 8^2 + 9^2 = 285
```

```
...Program finished with exit code 0
```

```
Press ENTER to exit console.
```

