```
clear all;
clc;
sum1=0;sum2=0;
n=input("enter the value of n : \n");
for i=1:n
    sum1=sum1+i*(i+1);
end
fprintf("sum of the series is %d \n",sum1);
```

sum of the series is 8

```
sum2=n*(n+1)*(n+2)/3;
fprintf("sum of series from guessed formula is %d \n",sum2);
```

sum of series from guessed formula is 8

```
if sum1==sum2
    fprintf("your guessed formula is right");
else
    fprintf("your guessed formula is not right");
end
```

your guessed formula is right

```
clear all;
clc;
sum1=0;sum2=0;
n=input("enter the value of n : \n");
for i=1:n
    sum1=sum1+i*(i+1)*(i+2);
end
fprintf("sum of the series is %d \n",sum1);
```

sum of the series is 210

```
sum2=n*(n+1)*(n+2)*(n+3)/4;
fprintf("sum of series from guessed formula is %d \n",sum2);
```

sum of series from guessed formula is 210

```
if sum1==sum2
    fprintf("your guessed formula is right");
else
    fprintf("your guessed formula is not right");
end
```

your guessed formula is right

```
clear all;
clc;
sum1=0;sum2=0;
```

```matlab
n=input("enter the value of n : \n");
for i=1:n
    sum1=sum1+i^4;
end
fprintf("sum of the series is %d \n",sum1);
```

sum of the series is 17

```matlab
sum2=n*(n+1)*(2*n+1)*(3*n^2+3*n-1)/30;
fprintf("sum of series from guessed formula is %d \n",sum2);
```

sum of series from guessed formula is 17

```matlab
if sum1==sum2
    fprintf("your guessed formula is right");
else
    fprintf("your guessed formula is not right");
end
```

your guessed formula is right