



File Actions Edit View Help

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

```
double factorial(int n){  
    double fact = 1;  
    for (int i=1; i<=n; i++)  
        fact *= i;  
    return fact;  
}
```

```
double seriesSum(int n){  
    double sum = 0;  
    for (int i=1; i<=n; i++)  
        sum += i/factorial(i);  
    return sum;  
}
```

```
int main(){  
    int n=5;  
    printf("Sum of the series: %.5lf\n", seriesSum(n));  
}
```

```
return 0;
```

```
}
```



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```
#include<stdio.h>

int main(){
    int n,sum=0;
    printf("Enter the number of terms:");
    scanf("%d",&n);

    for (int i=1;i<=n;i++){
        sum +=2*i;//Even numbers are 2,4,6,8...
    }
    printf("Sum of first %d even natural numbers:%d\n",n,sum);
return 0;
}
```



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```
#include<stdio.h>

int main(){
    int n;
    double sum = 0.0;

    printf("Enter the number of terms:");
    scanf("%d",&n);

    printf("Harmonic series:");
    for (int i=1;i<=n;i++){
        printf("1/%d",i);
        sum +=1.0/i;
        if (i!=n) printf("+");
    }

    printf("\nSum of the harmonic series:%.5lf\n",sum);
    return 0;
}
```



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```
#include<stdio.h>

int main(){
    int n;
    printf("Enter an integer:");
    scanf("%d",&n);
    for (int i=1;i<=n;i++){
        printf("Cube of %d is %d\n",i,i*i*i);
    }
    return 0;
}
```



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```
#include<stdio.h>

int isPalindrome(int num){
    int reversed=0,original=num,
        remainder;
    while(num>0){
        remainder=num%10;
        reversed=reversed*10+remainder;
        num/=10;
    }
    return original==reversed;
}

int main(){
    int num;
    printf("Enter a number:");
    scanf("%d",&num);

    if (isPalindrome(num))
        printf("%d is a palindrome.\n",num);
    else
        printf("%d is not a palindrome.\n",num);

    return 0;
}
```



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

```
int main(){
```

```
    int a=0,b=1,next,count=10;
```

```
    printf("First 10 fibonacci numbers:");
```

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

```
        printf("%d",a);
```

```
        next =a+b;
```

```
        a=b;
```

```
        b=next;
```

```
    }
```

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

```
    return 0;
```

```
}
```



File Actions Edit View Help

```
#include<stdio.h>

int main(){
    int num, previous=-1;
    printf("Enter numbers (enter a duplicate to stop):\n");
    while (1){
        scanf("%d",&num);
        if (num==previous){
            printf("Duplicate detected! Stopping input.\n");
            break;
        }
        previous=num;
    }
    return 0;
}
```



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```
#include<stdio.h>

int main(){
    int num, count=0;
    float sum= 0.0;
    printf("Enter numbers to calculate average(enter -1 to stop):\n");

    do{
        scanf("%d",&num);
        if ( num== -1) break;
        sum+=num;
        count++;
    }while(1);

    if (count>0)
        printf("Average: %.2f\n",sum/count);
    else
        printf("No numbers entered.\n");

    return 0;
}
```




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```
#include<stdio.h>
#include<math.h>
int main(){
    int num,sum=0;
    printf("Enter numbers (0 to stop):\n");
    do {
        scanf("%d",&num);
        if (num>0)sum+=num;
    }while(num!=0);
    printf("Sum of positive integers:%d\n",sum);
    return 0;
}
```



File Actions Edit View Help

```
#include<stdio.h>
#include<math.h>
int main(){
    double principal, rate,time,amount;
    char choice;
    do{
        printf("Enter principal:");
        scanf("%lf",&principal);
        printf("Enter rate of interesr:");
        scanf("%lf",&rate);
        printf("Enter time (in years):");
        scanf("%lf",&time);
        amount=principal*pow((1+rate/100),time);
        printf("Compound interest=%.2lf\n",amount-principal);
        printf("Do you want to calculate again?(y/n):");
        scanf("%c",&choice);
    }while (choice=='y' || choice=='Y');
    return 0;
}
```