1 Fibonacci series

```
#include<stdio.h>
int main(){
    int n,a=0,b=1,c,i;
    scanf("%d",&n);
    for(i=1;i<=n;i++){
        printf("%d",c);
        a=b;b=c;
        c=a+b;
    }
}
```

```
#include<stdio.h>
int main(){
 int n,a=0,b=1,c,i;
scanf("%d",&n);
 for(i=1;i<=n;i++){
 printf("%d ",a);
        c=a+b;
             a=b;b=c;
              }
              }
```

2 Smallest Prime Number

```
#include<stdio.h>
int main(){
    int n,i,j,flag,count=0;
    scanf("%d",&n);
    for(i=n+1;count<5;i++){
       flag=0;
     for(j=2;j<=n/2;j++){
         if(i%j==0){
            flag=1;
            break;
         }
     }
     if(flag==0){
         printf("%d ",i);
         count++;
```

```
    }
   }
}
```

3 Prime or Composite number

```
#include<stdio.h>
int main(){
    int n,i;
    scanf("%d",&n);
    int flag=0;
    for(i=2;i<=n/2;i++){
        if(n%i==0){
            flag=1;
            break;
        }
    }
    if(flag==0){
        printf("%d is a prime number",n);
    }
    else{
         printf("%d is a composite number",n);
    }
}
```

4 Series Sum Calculator

```
#include<stdio.h>
int main(){
    int n,digits,i,result=0,sum=0;
```

```
    scanf("%d %d",&n,&digits);
    for(i=0;i<digits;i++){
        result=result*10+n;
        sum+=result;
        printf("%d",result);
        if(i<n){
            printf(" + ");
        }
    }
    printf("\n%d",sum);
}
```

5 Divisor Sum and Equality Checker

```
#include<stdio.h>
int main(){
    int n,i,sum=0;
    scanf("%d",&n);
    for(i=1;i<=n;i++){
        if(n%i==0){
            sum+=i;
             printf("%d ",i);
        }
    }
    printf("\n%d",sum);
    if(sum==n){
        printf("\n%d is an equal number",sum);
    }
    else{
         printf("\n%d is not an equal number",sum);
```