1. First 10 even numbers

```
#include <stdio.h>
int main() {
    for(int i=1;i<=10;i++)
        printf("%d ", 2*i);
    return 0;
}
```

2. First n natural numbers

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

3. First n odd numbers

```
#include <stdio.h>
int main() {
    int n; scanf("%d",&n);
    for(int i=1;i<=n;i++) printf("%d ",2*i-1);
    return 0;
}
```

4. First n even numbers

```
#include <stdio.h>
int main() {
    int n; scanf("%d",&n);
    for(int i=1;i<=n;i++) printf("%d ",2*i);
    return 0;
}
```

5. Sum of n natural numbers

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

6. Sum of first n odd numbers

```
#include <stdio.h>
int main() {
    int n,sum=0; scanf("%d",&n);
    for(int i=1;i<=n;i++) sum+=2*i-1;
    printf("%d",sum);
    return 0;
}
```

7. Sum of first n even numbers

```c
#include <stdio.h>
int main() {
    int n,sum=0; scanf("%d",&n);
    for(int i=1;i<=n;i++) sum+=2*i;
    printf("%d",sum);
    return 0;
}
```

8. Factorial of a number

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

9. Print name 5 times

```c
#include <stdio.h>
int main() {
    for(int i=1;i<=5;i++) printf("YourName\n");
    return 0;
}
```

10. Print name n times

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

11. Sum of numbers divisible by 13 from 1-100

```c
#include <stdio.h>
int main() {
    int sum=0;
    for(int i=1;i<=100;i++) if(i%13==0) sum+=i;
    printf("%d",sum);
    return 0;
}
```

12. Sum & mean of 10 values

```c
#include <stdio.h>
int main() {
    float x,sum=0;
    for(int i=1;i<=10;i++){ scanf("%f",&x); sum+=x; }
    printf("Sum=%f Mean=%f",sum,sum/10);
    return 0;
}
```

13. Sum & mean of n values

```c
#include <stdio.h>
int main() {
    int n; scanf("%d",&n);
    float x,sum=0;
    for(int i=1;i<=n;i++){ scanf("%f",&x); sum+=x; }
    printf("Sum=%f Mean=%f",sum,sum/n);
    return 0;
}
```

14. Largest & smallest of 100 numbers

```c
#include <stdio.h>
int main() {
    int num,largest=-999999,smallest=999999;
    for(int i=1;i<=100;i++){
        scanf("%d",&num);
        if(num>largest) largest=num;
        if(num<smallest) smallest=num;
    }
    printf("Largest=%d Smallest=%d",largest,smallest);
    return 0;
}
```

15. Count positive, negative, zero among 200 inputs

```c
#include <stdio.h>
int main() {
    int x,pos=0,neg=0,zero=0;
    for(int i=1;i<=200;i++){
        scanf("%d",&x);
        if(x>0) pos++; else if(x<0) neg++; else zero++;
    }
    printf("Positive=%d Negative=%d Zero=%d",pos,neg,zero);
    return 0;
}
```

16. Count boys & girls in class of 50

```c
#include <stdio.h>
int main() {
    int code,b=0,g=0;
    for(int i=1;i<=50;i++){
        scanf("%d",&code);
        if(code==1) b++; else g++;
    }
    printf("Boys=%d Girls=%d",b,g);
    return 0;
}
```

17. Integers 1-100 divisible by 5

```c
#include <stdio.h>
int main() {
    for(int i=1;i<=100;i++) if(i%5==0) printf("%d ",i);
    return 0;
}
```

18. Sum of integers 1-100 divisible by 3

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

```
int main() {
    int sum=0;
    for(int i=1;i<=100;i++) if(i%3==0) sum+=i;
    printf("%d",sum);
    return 0;
}
```

19. Separate digits of number

```
#include <stdio.h>
int main() {
    int n; scanf("%d",&n);
    while(n>0){ printf("%d ",n%10); n/=10; }
    return 0;
}
```

20. Count digits of number

```
#include <stdio.h>
int main() {
    int n,count=0; scanf("%d",&n);
    while(n>0){ count++; n/=10; }
    printf("%d",count);
    return 0;
}
```

21. Sum of digits

```
#include <stdio.h>
int main() {
    int n,sum=0; scanf("%d",&n);
    while(n){ sum+=n%10; n/=10; }
    printf("%d",sum);
    return 0;
}
```

22. Reverse digits

```
#include <stdio.h>
int main() {
    int n,rev=0; scanf("%d",&n);
    while(n){ rev=rev*10+n%10; n/=10; }
    printf("%d",rev);
    return 0;
}
```

23. Palindrome check

```
#include <stdio.h>
int main() {
    int n,rev=0,temp; scanf("%d",&n); temp=n;
    while(temp){ rev=rev*10+temp%10; temp/=10; }
    if(rev==n) printf("Palindrome");
    else printf("Not Palindrome");
    return 0;
}
```

24. Armstrong number

```
#include <stdio.h>
int main() {
    int n,sum=0,temp; scanf("%d",&n); temp=n;
    while(temp){ int d=temp%10; sum+=d*d*d; temp/=10; }
    if(sum==n) printf("Armstrong");
    else printf("Not Armstrong");
    return 0;
}
```

25. Factors of number

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

26. Perfect number

```
#include <stdio.h>
int main() {
    int n,sum=0; scanf("%d",&n);
    for(int i=1;i<n;i++) if(n%i==0) sum+=i;
    if(sum==n) printf("Perfect");
    else printf("Not Perfect");
    return 0;
}
```

27. Prime number check

```
#include <stdio.h>
int main() {
    int n,flag=1; scanf("%d",&n);
    if(n<=1) flag=0;
    for(int i=2;i*i<=n;i++) if(n%i==0) flag=0;
    if(flag) printf("Prime"); else printf("Not Prime");
    return 0;
}
```

28. Prime numbers 1-500

```
#include <stdio.h>
int main() {
    for(int n=2;n<=500;n++){
        int flag=1;
        for(int i=2;i*i<=n;i++) if(n%i==0) flag=0;
        if(flag) printf("%d ",n);
    }
    return 0;
}
```

29. Sum of prime numbers 1-500

```
#include <stdio.h>
int main() {
    int sum=0;
    for(int n=2;n<=500;n++){
```

```
        int flag=1;
        for(int i=2;i*i<=n;i++) if(n%i==0) flag=0;
        if(flag) sum+=n;
    }
    printf("%d",sum);
    return 0;
}
```

30. Count prime numbers 1-500

```
#include <stdio.h>
int main() {
    int count=0;
    for(int n=2;n<=500;n++){
        int flag=1;
        for(int i=2;i*i<=n;i++) if(n%i==0) flag=0;
        if(flag) count++;
    }
    printf("%d",count);
    return 0;
}
```

31. Automorphic number

```
#include <stdio.h>
int main() {
    int n; scanf("%d",&n);
    long sq=n*n;
    int temp=n;
    while(temp){
        if(temp%10 != sq%10){ printf("Not Automorphic"); return 0; }
        temp/=10; sq/=10;
    }
    printf("Automorphic");
    return 0;
}
```

32. Fibonacci series

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