**1. Write a program to check whether the given no is prime number or not**

```c
#include <stdio.h>

void isPrime(int x ){
    if(x<=1){
        printf("Incorrect Input number");
        return;
    }

    for(int i=2; i*i<=x; i+=1){
        if(x%i==0){
            printf("Not a prime");
        }
    }
    printf("Is Prime");
}

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

    isPrime(a);
    return 0;

}
```

**2.. Write a program to display largest among 3 numbers (Using If-Else)**

```c
#include <stdio.h>

int main(){
    printf("enter the three numbers:");

    int a,b,c;
    scanf("%d %d %d", &a, &b, &c);

    if(a>=b && a>=c){
        printf("The largest is: %d", a);

    }
    else if(b>=c){
        printf("The largest is: %d", b);
    }
    else{
        printf("The largest is: %d", c);
    }
    return 0;
}
```

**2. Write a program to Demonstrate working of 3 loops(for, while and dowhile)**

```c
#include <stdio.h>

int main(){
    for(int i=1; i<=10; i+=1){
        printf("%d", i);
    }

    int j=1;
    while(j<=10){
        printf("%d", j);
        j+=1;
    }

    int k=1;
    do{
        printf("%d", k);
        k+=1;
    }while(k<=10);

    return 0;
}
```

3. Write a program to print the following pattern

1
2 3
4 5 6
7 8 9 10

1
1 1
1 1 1
1 1 1 1

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

```c
#include <stdio.h>

int main(){
    printf("Enter the value of n");
    int n;
    scanf("%d", &n);

    int number=1;
    for(int i=1; i<=n; i+=1){
        for(int j=1; j<=i; j+=1){
            printf("%d", number);
            number+=1;
        }
    }

    int number=1;
    for(int i=1; i<=n; i+=1){
        for(int j=1; j<=i; j+=1){
            printf("%d", number);
        }
    }


    for(int i=1; i<=n; i+=1){
        for(int j=1; j<=i; j+=1){
            printf("%d", j);
        }
    }

}
```