

1.

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

```
int main() {
```

```
    int a,b;
```

```
    printf("First Number:");
```

```
    scanf("%d",&a);
```

```
    printf("Second Number:");
```

```
    scanf("%d",&b);
```

```
    if(a>b) {
```

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

```
    } else {
```

```
        printf("%d is maximum",b);
```

```
    }
```

```
    return 0;
```

```
}
```

Input: 52

22

Output: 52 is maximum

2.

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

```
int main() {
```

```
    int a,b,c;
```

```
    printf("First Number:");
```

```
    scanf("%d",&a);
```

```
    printf("Second Number:");
```

```
    scanf("%d",&b);
```

```
    printf("Third number:");
```

```
    scanf("%d",&c);
```

```
    if(a>b) {
```

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

```
    } else if (b>c) {
```

```
        printf("%d is maximum",b);
```

```
    } else {
```

```
        printf("%d is maximum",c);
```

```
    }
```

```
    return 0;
```

```
}
```

Input: 20

30

40

Output:

40 is maximum

3.

```
#include<stdio.h>
int main()
{
    int a;
    printf("First Number :");
    scanf("%d",&a);
    if(a>0){
        printf("%d is positive",a);
    }
    else if(0>a){
        printf("%d is negative",a);
    }
    else{
        printf("%d is zero",a);
    }
    return 0;
}
```

Input: -100

Output: -100 is negative

4.

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

```
int main() {
```

```
    int a,b,c;
```

```
    printf("First Number:");
```

```
    scanf("%d",&a);
```

```
    if((a%5==0) && (a%13==0)) {
```

```
        printf("%d is divisible by 5 & 13",a);
```

```
    } else if (a%5==0) {
```

```
        printf("%d is divisible by only 5",a);
```

```
    } else {
```

```
        printf("%d is divisible by only 13",a);
```

```
    }
```

```
    return 0;
```

```
}
```

Input: 85

Output:

85 is divisible by only 5

5.

```
#include<stdio.h>
int main()
{
    int a;
    printf("First Number :");
    scanf("%d",&a);
    if(a%2==0){
        printf("%d is even number",a);
    }
    else{
        printf("%d is odd number",a);
    }
    return 0;
}
```

Input: 10

Output: 10 is even number

6.

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

```
int main() {
```

```
    int year;
```

```
    printf("First Number:");
```

```
    scanf("%d",&year);
```

```
    if((year%4==0) && (year%100!=0)) {
```

```
        printf("%d is a leap year",year);
```

```
    } else if (year%400==0) {
```

```
        printf("%d is a leap year",year);
```

```
    } else {
```

```
        printf("common year");
```

```
    }
```

```
    return 0;
```

```
}
```

Input:2000

Output: 2000 is a leap year

7.

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

```
int main() {
```

```
    char ch;
```

```
    printf("Enter the character:");
```

```
    scanf("%c",&ch);
```

```
    if(((ch>='a') && (ch<='z')) || ((ch>='A') && (ch<='Z')) {
```

```
        printf("Character is an Alphabet");
```

```
    } else {
```

```
        printf("Character is not an Alphabet");
```

```
    }
```

```
return 0;
```

```
}
```

Input: A

Output: Character is an Alphabet

8.

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

```
int main() {
```

```
    char ch;
```

```
    printf("Enter the character:");
```

```
    scanf("%c",&ch);
```

```
    if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u' ||  
       ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U') {  
        printf("Character is a vowel");
```

```
    } else {
```

```
        printf("Character is not a vowel");
```

```
    }
```

```
    return 0;
```

```
}
```

Input: V

Output: Character is not a vowel

9.

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

```
int main() {
```

```
    char ch;
```

```
    printf("Enter the character:");
```

```
    scanf("%c",&ch);
```

```
    if(((ch>='a') && (ch>='z')) && ((ch>='A') && (ch>='Z')) {
```

```
        printf("%c is alphabet",ch);
```

```
    } else if (ch>='a') && (ch>='z'){
```

```
        printf("%c is digit",ch);
```

```
    } else {
```

```
        printf("%c is special character",ch);
```

```
    }
```

```
    return 0;
```

```
}
```

Input:6

Output: 6 is digit

10.

```
#include<stdio.h>
int main()
{
    char ch;
    printf("Enter Any Character :");
    scanf("%c",&ch);

    if((ch>='A') && (ch<='Z')){
        printf("%c is uppercase alphabet",ch);
    }
    else if((ch>='a') && (ch<='z'))
    {
        printf("%c is lowercase alphabet",ch);
    }
    else{
        printf("%c is not an alphabet",ch);
    }
    return 0;
}
```

Input: B

Output: B is uppercase alphabet