

Problem - 1: Write a C program to find maximum between two numbers.

Source Code :

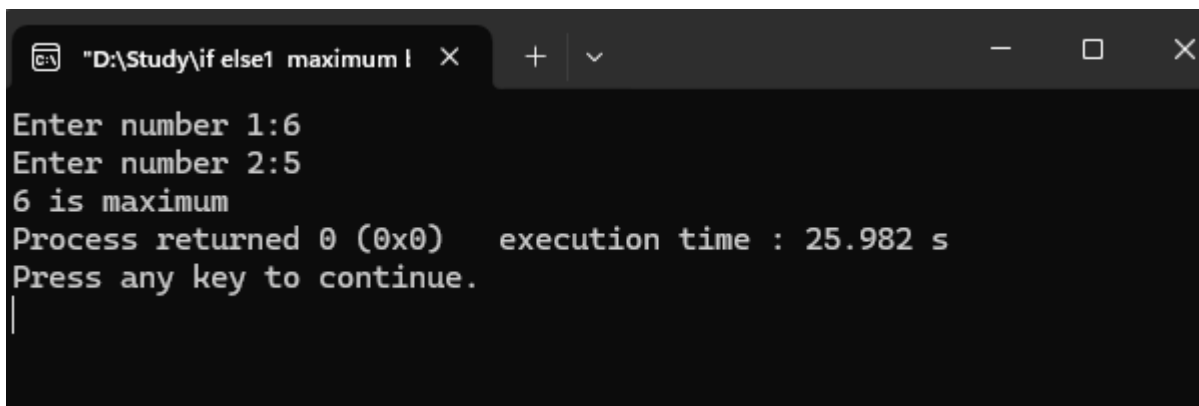
```
#include<stdio.h>
int main()
{
    int a,b;

    printf("Enter number 1:");
    scanf("%d",&a);

    printf("Enter number 2:");
    scanf("%d",&b);

    if(a>b)
    {
        printf("%d is maximum",a);
    }
    Else
    {
        printf("%d is maximum",b);
    }
    return 0;
}
```

Output :

A screenshot of a Windows command prompt window. The title bar shows the file path "D:\Study\if else1 maximum I" and standard window controls. The command prompt displays the following text: "Enter number 1:6", "Enter number 2:5", "6 is maximum", "Process returned 0 (0x0) execution time : 25.982 s", and "Press any key to continue." followed by a cursor on a new line.

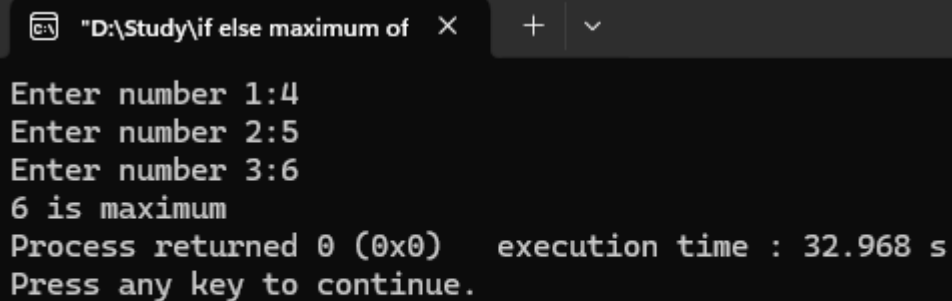
```
"D:\Study\if else1 maximum I" X + - □ X
Enter number 1:6
Enter number 2:5
6 is maximum
Process returned 0 (0x0) execution time : 25.982 s
Press any key to continue.
|
```

Problem - 2: Write a C program to find maximum between three numbers.

Source Code:

```
#include<stdio.h>
int main()
{
    int a,b,c;
    printf("Enter number 1:");
    scanf("%d",&a);
    printf("Enter number 2:");
    scanf("%d",&b);
    printf("Enter number 3:");
    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;
}
```

Output :

A screenshot of a Windows command prompt window titled "D:\Study\if else maximum of". The window shows the execution of a C program. The user enters three numbers: 4, 5, and 6. The program outputs "6 is maximum". Below this, it shows "Process returned 0 (0x0) execution time : 32.968 s" and "Press any key to continue." followed by a vertical bar character.

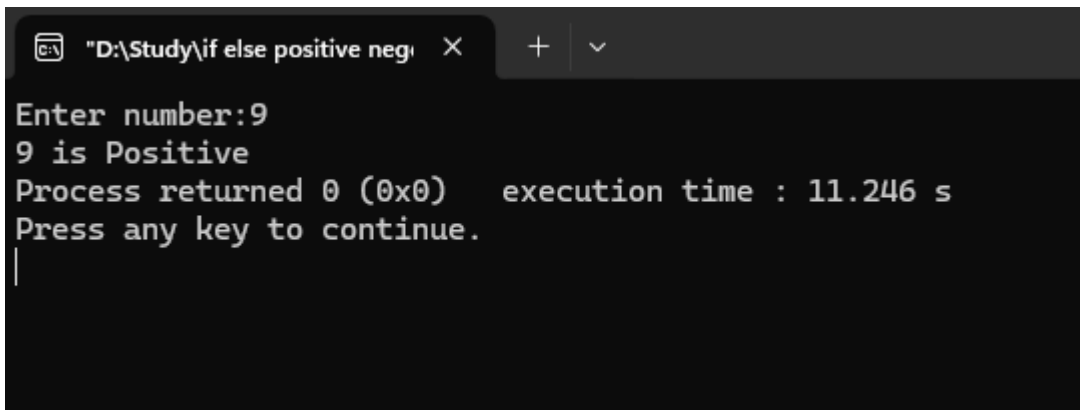
```
"D:\Study\if else maximum of" X + v
Enter number 1:4
Enter number 2:5
Enter number 3:6
6 is maximum
Process returned 0 (0x0) execution time : 32.968 s
Press any key to continue.
|
```

Problem - 3: Write a C program to check whether a number is negative, positive or zero.

Source Code :

```
#include<stdio.h>
int main()
{
    int a;
    printf("Enter number:");
    scanf("%d",&a);
    if(a>0){
        printf("%d is Positive",a);
    }
    else if(a<0){
        printf("%d is Negative",a);
    }
    else{
        printf("%d is ZERO",a);
    }
    return 0;
}
```

Output :



```
"D:\Study\if else positive negi" X + v
Enter number:9
9 is Positive
Process returned 0 (0x0) execution time : 11.246 s
Press any key to continue.
|
```

Problem - 4: Write a C program to check whether a number is divisible by 5 and 11 or not.

Source Code :

```
#include<stdio.h>

int main()
{
    int a;

    printf("Enter number:");

    scanf("%d",&a);

    if(a%5==0 && a%11==0){

        printf("%d Number is divisible by 5 and 11",a);

    }

    else{

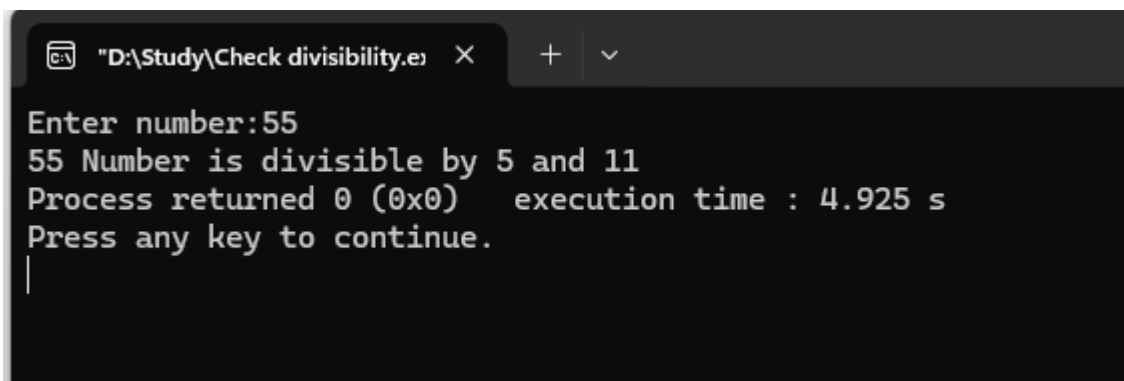
        printf("%d Number is not divisible by 5 and 11",a);

    }

    return 0;

}
```

Output :



```
"D:\Study\Check divisibility.e" × + ▾
Enter number:55
55 Number is divisible by 5 and 11
Process returned 0 (0x0)   execution time : 4.925 s
Press any key to continue.
|
```

Problem - 5: Write a C program to check whether a number is even or odd.

Source Code :

```
#include<stdio.h>

int main()
{
    int a;

    printf("Input number:");

    scanf("%d",&a);

    if(a%2==0){

        printf("%d is even number",a);

    }

    else{

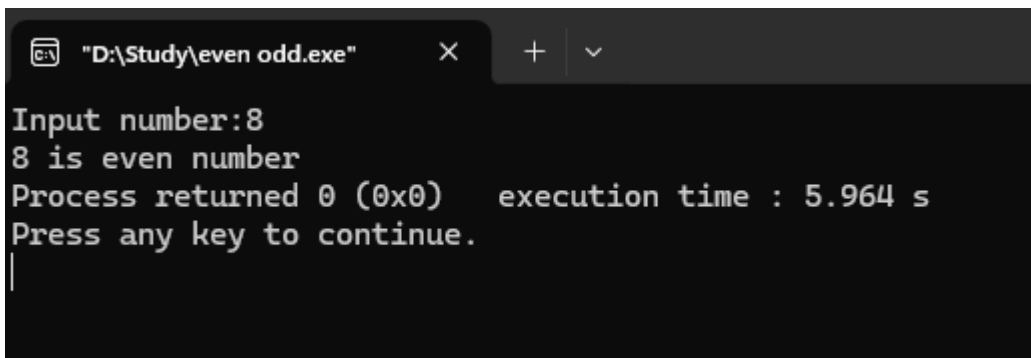
        printf("%d is odd number",a);

    }

    return 0;

}
```

Output :



```
"D:\Study\even odd.exe" × + v
Input number:8
8 is even number
Process returned 0 (0x0) execution time : 5.964 s
Press any key to continue.
|
```

Problem - 6: Write a C program to check whether a year is leap year or not.

Source Code :

```
#include<stdio.h>

int main()
{
    int a;

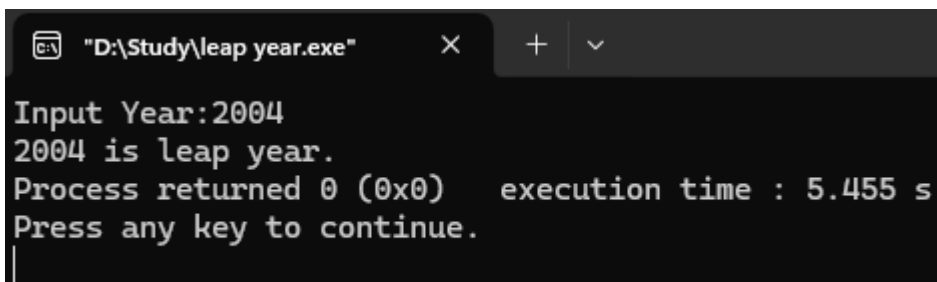
    printf("Input Year:");

    scanf("%d",&a);

    if(a%4==0 && a%100!=0){
        printf("%d is leap year.",a);
    }
    else{
        printf("%d is not leap year.",a);
    }

    return 0;
}
```

Output :



The screenshot shows a Windows command prompt window titled "D:\Study\leap year.exe". The output of the program is displayed in a monospaced font: "Input Year:2004", "2004 is leap year.", "Process returned 0 (0x0) execution time : 5.455 s", and "Press any key to continue.". A cursor is visible on the line following the last prompt.

```
"D:\Study\leap year.exe"  X  +  v
Input Year:2004
2004 is leap year.
Process returned 0 (0x0)  execution time : 5.455 s
Press any key to continue.
|
```

Problem - 7: Write a C program to check whether a character is alphabet or not.

Source Code :

```
#include<stdio.h>

int main()
{
    int ch;

    printf("Input character:");

    scanf("%c",&ch);

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

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

    }

    else{

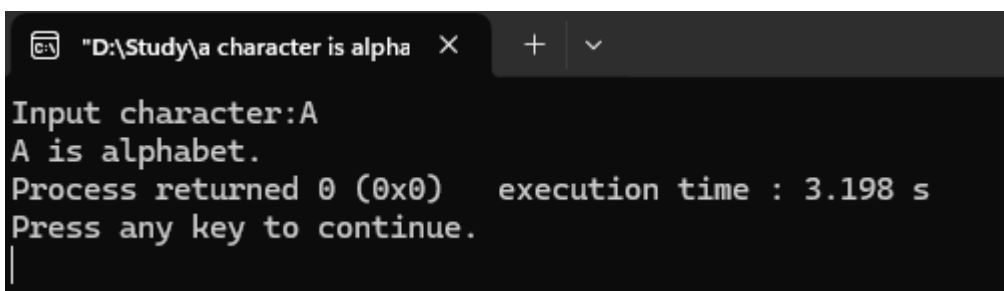
        printf("%c is not alphabet.",ch);

    }

    return 0;

}
```

Output :



```
"D:\Study\alpha character is alpha" X + v
Input character:A
A is alphabet.
Process returned 0 (0x0)   execution time : 3.198 s
Press any key to continue.
|
```

Problem – 8: Write a C program to input any alphabet and check whether it is vowel or consonant.

Source Code :

```
#include<stdio.h>

int main()
{
    int ch;

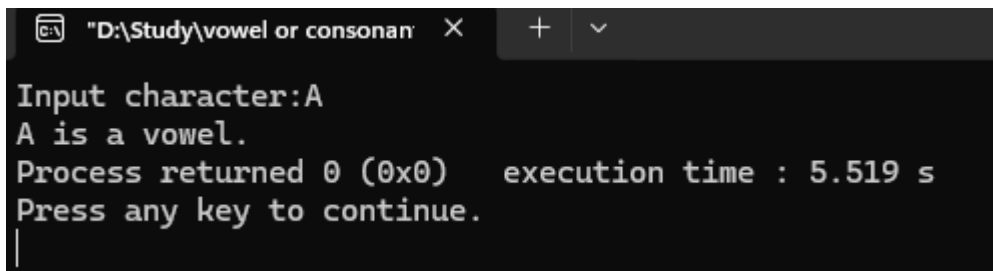
    printf("Input character:");

    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("%c is a vowel.",ch);
    }
    else{
        printf("%c is consonant.",ch);
    }

    return 0;
}
```

Output :



```
"D:\Study\vowel or consonant" X + v
Input character:A
A is a vowel.
Process returned 0 (0x0)   execution time : 5.519 s
Press any key to continue.
|
```


Problem - 9:

Write a C program to input any character and check whether it is alphabet, digit or special character.

Source Code :

```
#include<stdio.h>

int main()
{
    int ch;

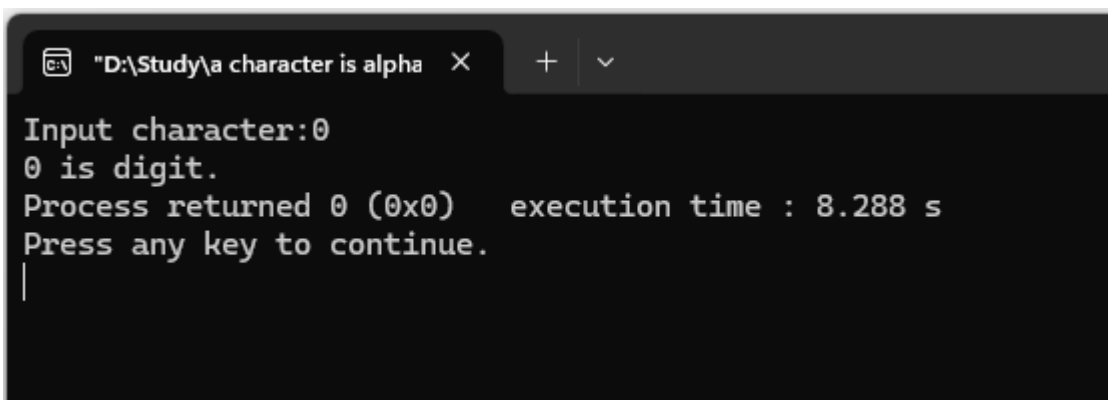
    printf("Input character:");

    scanf("%c",&ch);

    if((ch>='a' && ch<='z') || (ch>='A' && ch<='Z')){
        printf("%c is alphabet.",ch);
    }
    else if(ch>='0' && ch<='9'){
        printf("%c is digit.",ch);
    }
    else{
        printf("%c is special character.",ch);
    }

    return 0;
}
```

Output :



```
"D:\Study\alpha character is alpha" X + v
Input character:0
0 is digit.
Process returned 0 (0x0) execution time : 8.288 s
Press any key to continue.
|
```

Problem - 10: Write a C program to check whether a character is uppercase or lowercase alphabet.

Source Code :

```
#include<stdio.h>

int main()
{
    int ch;

    printf("Input character:");

    scanf("%c",&ch);

    if(ch>='a' && ch<='z'){

        printf("%c is lowercase  alphabet.",ch);

    }

    else{

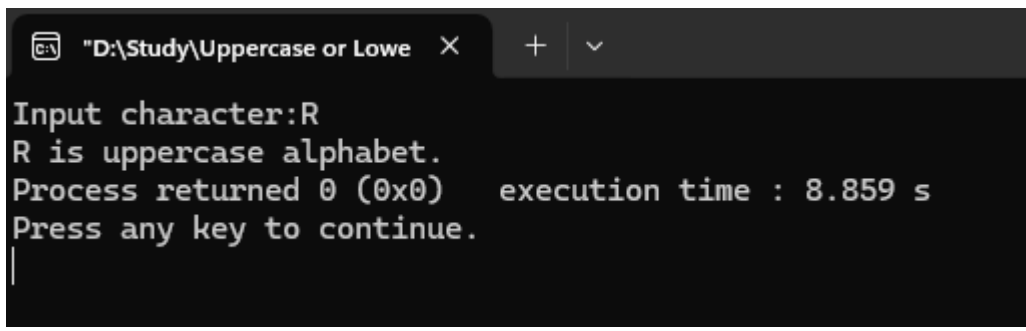
        printf("%c is uppercase alphabet.",ch);

    }

    return 0;

}
```

Output :

A screenshot of a Windows command prompt window titled "D:\Study\Uppercase or Lowe". The window shows the execution of a C program. The output is as follows:
Input character:R
R is uppercase alphabet.
Process returned 0 (0x0) execution time : 8.859 s
Press any key to continue.
|
The window has a standard Windows title bar with a close button (X) and a maximize button (+). The text is displayed in a monospaced font on a black background.

