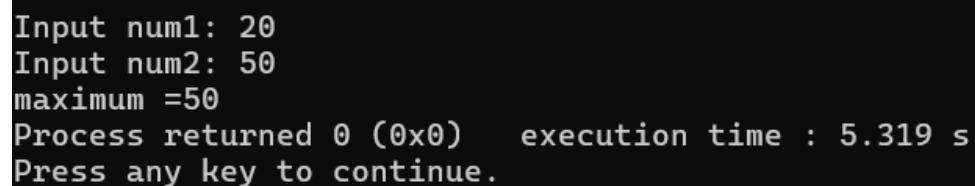## 1. Problem Name:

Write a C program to find maximum between two numbers using if else. C program to input two numbers from user and find maximum between two numbers using if else. How to find maximum or minimum between two numbers using if else in C programming.

Source Code:

```c
#include <stdio.h>

int main()
{
int x, y;
printf("Input num1: ");
scanf("%d",&x);
printf("Input num2: ");
scanf("%d",&y);
if(x > y)
{ printf("maximum =%d", x); }
else
{ printf("maximum =%d", y); }
return 0;
}
```

Output:

```
Input num1: 20
Input num2: 50
maximum =50
Process returned 0 (0x0)    execution time : 5.319 s
Press any key to continue.
```

2. Problem Name:

Write a C program to find maximum between three numbers using ladder if else or nested if. How to find maximum or minimum between three numbers using if else in C programming. Logic to find maximum or minimum between three numbers in C program.

Source Code:

```c
#include <stdio.h>

int main()

{

int x, y, z;

printf("Enter numbers1: ");

 scanf("%d",&x);

printf("Enter numbers2: ");

scanf("%d",&y);


printf("Enter numbers3: ");

scanf("%d",&z);

if((x > y) && (x > z))

{

printf("Maximum is = %d",x);

}

else if((y > x) && (y > z))

{

printf("Maximum is = %d",y);

}

else

{

printf("Maximum is = %d",z);
```

}return 0;

}

Output:

```
Enter numbers1: 50
Enter numbers2: 60
Enter numbers3: 25
Maximum is = 60
Process returned 0 (0x0)    execution time : 13.321 s
Press any key to continue.
```

3. Problem Name:

Write a C program to check positive, negative or zero using simple if or if else. C program to input any number from user and check whether the given number is positive, negative or zero. Logic to check negative, positive or zero in C programming.

Source Code:

```c
#include <stdio.h>
int main()
{ int N;
  printf("Enter any number: ");
  scanf("%d",&N);
  if(N > 0)
    {
    printf("Number is POSITIVE");
    }
  else if(N < 0)
    {
      printf("Number is NEGATIVE");
    }
  else
    {
    printf("Number is ZERO");
    }
  return 0;
} Output:
```

```
Enter any number: 50
Number is POSITIVE
Process returned 0 (0x0)   execution time : 5.458 s
Press any key to continue.
```

4. Problem Name:

Write a C program to check whether a number is divisible by 5 and 11 or not using if else. How to check divisibility of any number in C programming. C program to enter any number and check whether it is divisible by 5 and 11 or not. Logic to check divisibility of a number in C program.

Source Code:

```c
#include <stdio.h>

int main()
{
int N;

printf("Enter any number: ");

scanf("%d",&N);

if((N % 5 == 0) && (N % 11 == 0))
{
printf("Number is divisible by 5 and 11");
}
else
{
printf("Number is not divisible by 5 and 11");
}
return 0;
}
```

Output:

```
Enter any number: 44
Number is not divisible by 5 and 11
Process returned 0 (0x0)   execution time : 2.800 s
Press any key to continue.
```

5. Problem Name:

Write a C program to check whether a number is even or odd using if else. How to check whether a number is even or odd using if else in C program. C Program to input a number from user and check whether the given number is even or odd. Logic to check even and odd number using if...else in C programming.

Source Code:

```c
#include <stdio.h>

int main()
{
int N;
printf("Enter any number : ");
scanf("%d",&N);
if(N % 2 == 0)
{
printf("%d Number is Even.",N);
}
else
{
printf("%d Number is Odd.",N);
}
return 0;  }
```
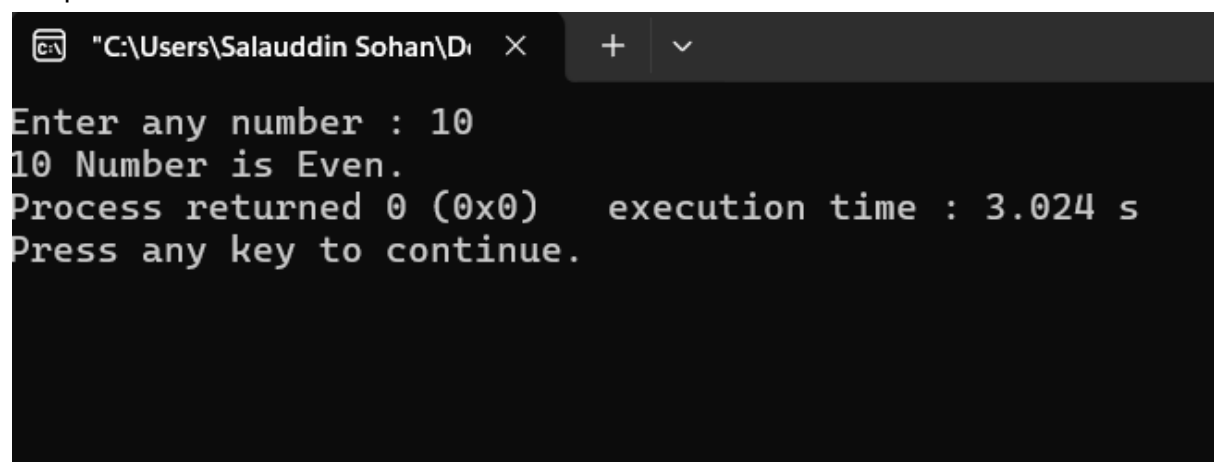
Output:


```
Enter any number : 10
10 Number is Even.
Process returned 0 (0x0)     execution time : 3.024 s
Press any key to continue.
```

6. Problem Name:

Write a C program to check leap year using if else. How to check whether a given year is leap year or not in C programming. C Program to input year from user and check whether the given year is leap year or not using ladder if else. Logic to check leap year in C programming.

Source Code:

```c
#include <stdio.h>

int main()
{
int Y;
printf("Enter year : ");
scanf("%d",&Y);
if(((Y % 4 == 0) && (Y % 100 != 0)) || (Y % 400 == 0))
{
printf("The year is LEAP YEAR");
}
else
{
printf("The year is not LEAP YEAR");
}
return 0;
}
```
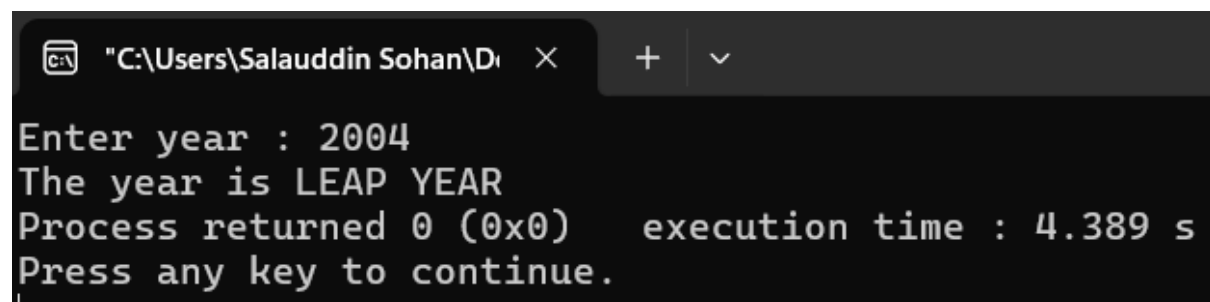
Output:


```
Enter year : 2004
The year is LEAP YEAR
Process returned 0 (0x0)    execution time : 4.389 s
Press any key to continue.
```

7. Problem Name:

Write a C program to input a character from user and check whether the given character is alphabet or not using if else. How to check whether a character is alphabet or not in C programming. Logic to check if a character is alphabet or not in C program.

Source Code:

```c
#include <stdio.h>

int main()

{

char C;

printf("Enter any character: ");

scanf("%c",&C);

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

{

printf("'%c'Character is an ALPHABET.",C);

}

else

{

printf("'%c'Character is NOT ALPHABET.",C);

}

return 0;

}
```
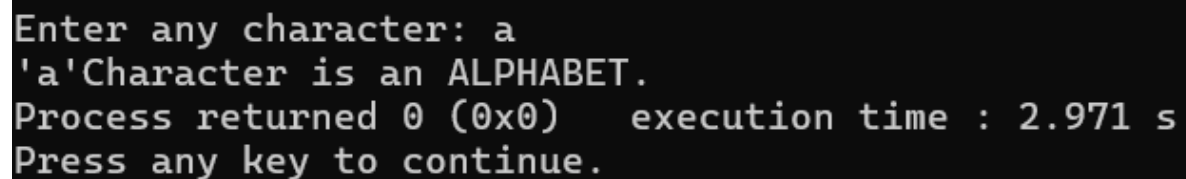
Output:

```
Enter any character: a
'a'Character is an ALPHABET.
Process returned 0 (0x0)   execution time : 2.971 s
Press any key to continue.
```

8. Problem Name:

Write a C program to check whether an alphabet is vowel or consonant using if else. How to check vowels and consonants using if else in C programming. C Program to input a character from user and check whether it is vowel or consonant. Logic to check vowel or consonant in C programming.

Source Code:

```c
#include <stdio.h>

int main()

{ char C;

printf("Enter any character: ");

scanf("%c",&C);

if(C == 'a' || C == 'e' || C == 'i' || C == 'o' || C == 'u' ||

C == 'A' || C == 'E' || C == 'I' || C == 'O' || C == 'U')

{

printf("'%c' is Vowel.", C);

}

else if((C >= 'a' && C <= 'z') || (C >= 'A' && C <= 'Z'))

{

printf("'%c' is Consonant.", C);

}

else

{ printf("'%c' is not an alphabet.", C);

}

return 0; }
```

Output:

```
Enter any character: c
'c' is Consonant.
Process returned 0 (0x0)   execution time : 3.030 s
Press any key to continue.
```

9. Problem Name:

Write a C program to input a character from user and check whether given character is alphabet, digit or special character using if else. How to check if a character is alphabet, digits or any other special character using if else in C programming. Logic to check alphabet, digit or special character in C programming.

Source Code:

```c
#include <stdio.h>

int main()
{
char C;
printf("Enter any character: ");
scanf("%c",&C);
if((C >= 'a' && C <= 'z') || (C >= 'A' && C <= 'Z'))
{
printf("'%c' is an Alphabet.", C);
}
else if(C >= '0' && C <= '9')
{
printf("'%c' is a Digit.", C);
}
else
{ printf("'%c' is a Special Character.", C);
}
return 0; }
```
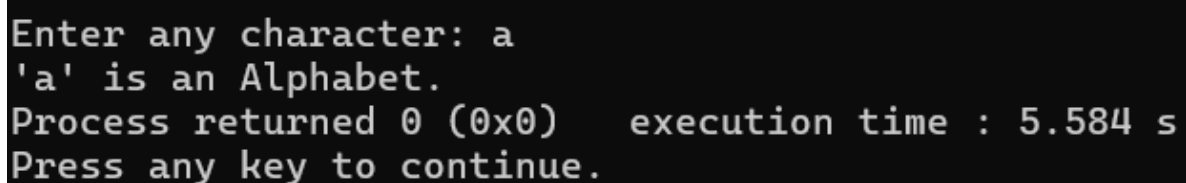
Output:

```
Enter any character: a
'a' is an Alphabet.
Process returned 0 (0x0)    execution time : 5.584 s
Press any key to continue.
```

10. Problem Name:

Write a C program to input character from user and check whether character is uppercase or lowercase alphabet using if else. How to check uppercase and lowercase using if else in C programming. Logic to check uppercase and lowercase alphabets in C program.

Source Code:

```c
#include <stdio.h>

int main()
{ char C;

printf("Enter any character: ");

scanf("%c",&C);

if(C >= 'A' && C <= 'Z')

{

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

}

else if(C >= 'a' && C <= 'z')

{

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

}

else

{ printf("'%c' is not an alphabet.", C);

}

return 0;

}
```
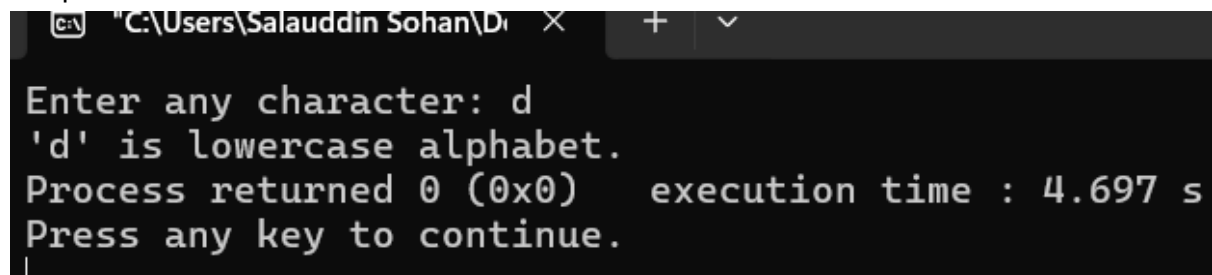
Output:


```
Enter any character: d
'd' is lowercase alphabet.
Process returned 0 (0x0)    execution time : 4.697 s
Press any key to continue.
```