

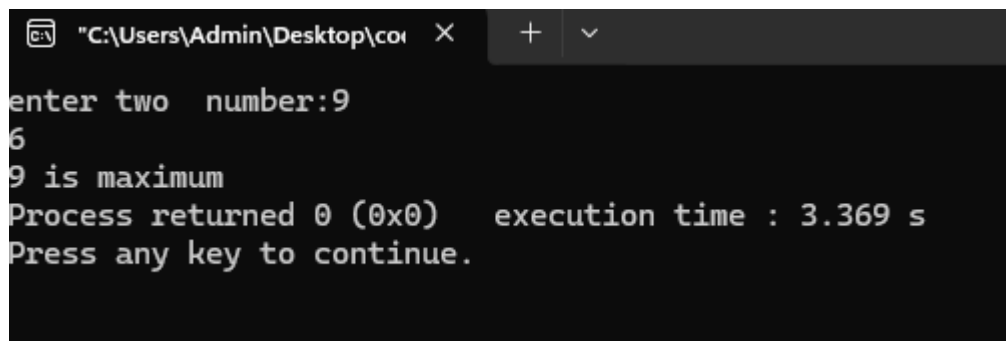
**Problem name:** C program find the maximum between two numbers

**Source code:** #include<stdio.h>

```
int main(){
int num1,num2;
printf("enter two number:");
scanf("%d%d",&num1,&num2);
if(num1>num2){
    printf("%d is maximum",num1);
}
if(num1<num2){
    printf("%d is maximum",num2);
}
if(num1==num2){
    printf("both are equal");
}

return 0;
}
```

**Output:**



```
enter two number:9
6
9 is maximum
Process returned 0 (0x0)   execution time : 3.369 s
Press any key to continue.
```

**Problem name:** C program find the maximum number between three numbers

**Source code:** #include<stdio.h>

```
int main(){
int num1,num2,num3,max;
printf("Enter three numbers:");
scanf("%d%d%d",&num1,&num2,&num3);
if(num1 > num2)
{
    if(num1 > num3)
    {
        max = num1;
    }
    else
    {
```

```

        max = num3;
    }
}
else
{
    if(num2 > num3)
    {

        max = num2;
    }
    else
    {

        max = num3;
    }
}

printf("Maximum among all three numbers=%d",max);
return 0;
}

```

**Output:**

```

Enter three numbers:56
54
51
Maximum among all three numbers=56
Process returned 0 (0x0)   execution time : 3.464 s
Press any key to continue.
|

```

**Problem name:**C program to check whether a number is positive,negative or zero

**Source code:** #include<stdio.h>

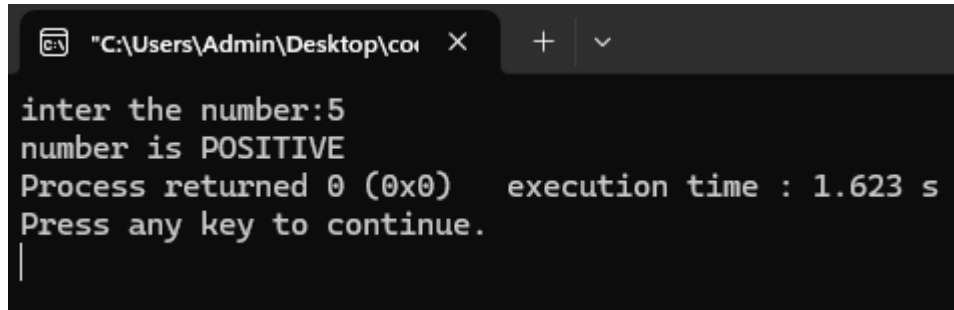
```

int main(){
int num;
printf("inter the number:");
scanf("%d",&num);
if(num>0)
{
    printf("number is POSITIVE");
}
if(num<0){
    printf("number is NEGATIVE");
}
}

```

```
if(num==0){  
    printf("number is ZERO");  
}  
return 0;  
}
```

**Output:**



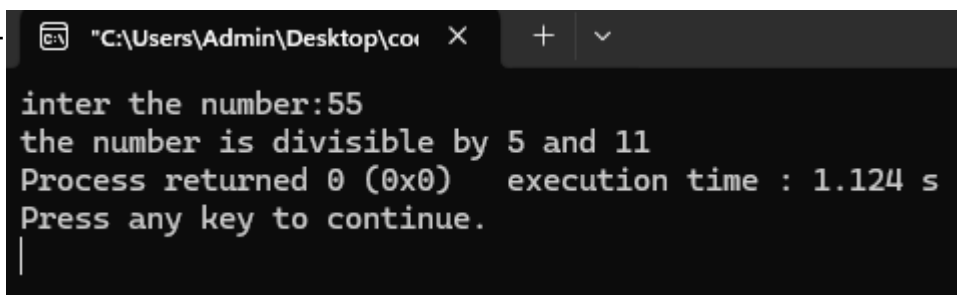
```
"C:\Users\Admin\Desktop\coi X + v  
inter the number:5  
number is POSITIVE  
Process returned 0 (0x0)    execution time : 1.623 s  
Press any key to continue.  
|
```

**Problem name:** C program to check whether a number is divisible by 5 and 11 or not

**Source code:** #include<stdio.h>

```
int main(){  
    int num;  
    printf("inter the number:");  
    scanf("%d",&num);  
    if((num%5==0)&&(num%11==0)){  
        printf("the number is divisible by 5 and 11");  
    }  
    else{  
        printf("the number is not divisible by 5 and 11");  
    }  
    return 0;  
}
```

**Output:**



```
"C:\Users\Admin\Desktop\coi X + v  
inter the number:55  
the number is divisible by 5 and 11  
Process returned 0 (0x0)    execution time : 1.124 s  
Press any key to continue.  
|
```

**Problem name:** C program to check whether a number is even or odd

**Source code:** #include<stdio.h>

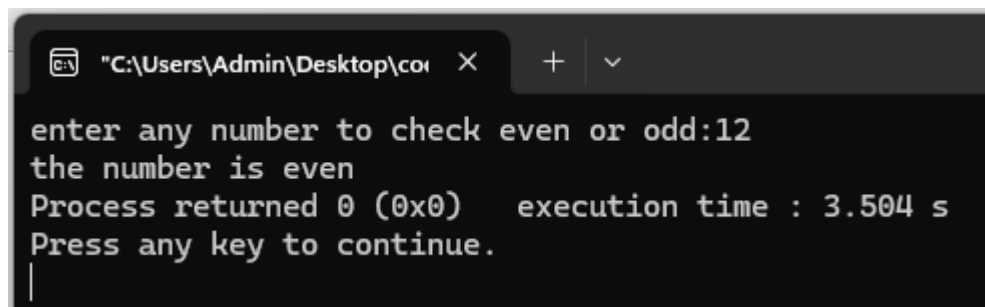
```
int main(){  
    int num;
```

```

printf("enter any number to check even or odd:");
scanf("%d",&num);
if(num%2==0){
    printf("the number is even");
}
else{
    printf("the number is odd");
}
return 0;
}

```

**Output:**



```

C:\Users\Admin\Desktop\coi X + v
enter any number to check even or odd:12
the number is even
Process returned 0 (0x0)   execution time : 3.504 s
Press any key to continue.
|

```

**Problem name:** C program to check leap year

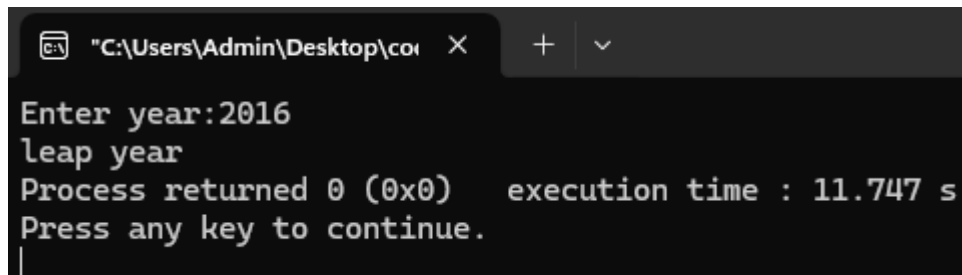
**Source code:** #include<stdio.h>

```

int main(){
int year;
printf("Enter year:");
scanf("%d",&year);
if((year%4==0)&&(year%100!=0)||year%400==0){
    printf("leap year");
}
else{
    printf("common year");
}
return 0;
}

```

**Output:**



```

C:\Users\Admin\Desktop\coi X + v
Enter year:2016
leap year
Process returned 0 (0x0)   execution time : 11.747 s
Press any key to continue.
|

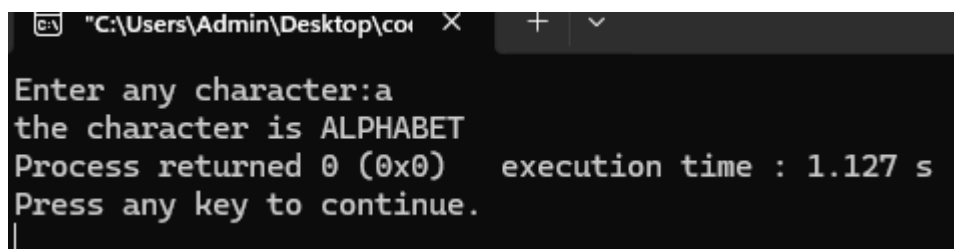
```

**Problem name:** C program to check whether a character is alphabet or not

**Source code:** #include<stdio.h>

```
int main(){
char ch;
printf("Enter any character:");
scanf("%c",&ch);
if((ch>='a'&&ch<='z')||(ch>='A'&&ch<='Z')){
    printf("the character is ALPHABET");
}
else{
    printf("the character is not ALPHABET");
}
return 0;
}
```

**Output:**



```
Enter any character:a
the character is ALPHABET
Process returned 0 (0x0)   execution time : 1.127 s
Press any key to continue.
```

**Problem name:** C program to check vowel or consonant

**Source code:** #include <stdio.h>

```
int main()
{
    char ch;
    printf("Enter any 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 Vowel.", ch);
    }
    else if((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z'))
    {
        printf("'%c' is Consonant.", ch);
    }
    else
    {
        printf("'%c' is not an alphabet.", ch);
    }

    return 0;
}
```

```
}
```

**Output:**

```
"C:\Users\Admin\Desktop\cor" X + v
Enter any character: a
'a' is Vowel.
Process returned 0 (0x0)    execution time : 1.402 s
Press any key to continue.
```

**Problem name:** C program to check whether a character is alphabet, digit or special character

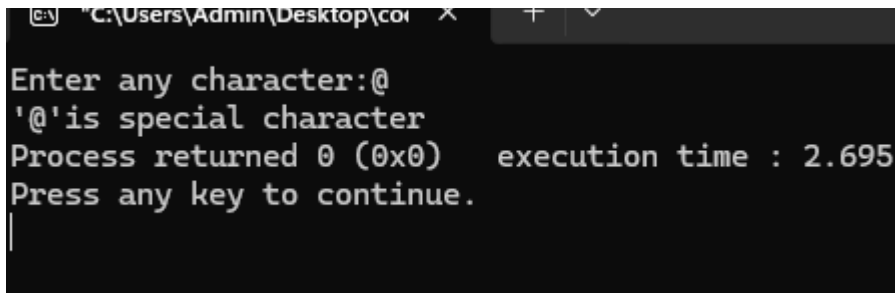
**Source code:** #include <stdio.h>

```
int main(){
char ch;
printf("Enter any 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:**

```
"C:\Users\Admin\Desktop\cor" X + v
Enter any character:a
'a' is alphabet
Process returned 0 (0x0)    execution time : 1.838 s
Press any key to continue.
```

```
"C:\Users\Admin\Desktop\cor" X + v
Enter any character:1
'1' is digit
Process returned 0 (0x0)    execution time : 2.032 s
Press any key to continue.
```

A screenshot of a Windows command prompt window. The title bar shows the file path "C:\Users\Admin\Desktop\cor". The text inside the window reads: "Enter any character:@", "'@'is special character", "Process returned 0 (0x0) execution time : 2.695", and "Press any key to continue." followed by a cursor.

```
Enter any character:@
'@'is special character
Process returned 0 (0x0) execution time : 2.695
Press any key to continue.
```

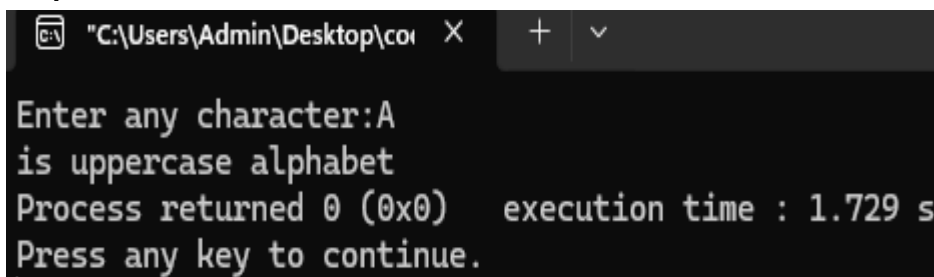
**Problem name:** C program to check whether a character is uppercase or lowercase

**Source code:** #include<stdio.h>

```
int main(){
char ch;
printf("Enter any character:");
scanf("%c",&ch);
if(ch>='A'&&ch<='Z')
{
printf("is uppercase alphabet",ch);
}
else if(ch >='a'&& ch <='z')
{
printf("is lowercase alphabet",ch);
}
else
{
printf("is not an alphabet",ch);
}

return 0;
}
```

**Output:**

A screenshot of a Windows command prompt window. The title bar shows the file path "C:\Users\Admin\Desktop\cor". The text inside the window reads: "Enter any character:A", "is uppercase alphabet", "Process returned 0 (0x0) execution time : 1.729 s", and "Press any key to continue." followed by a cursor.

```
Enter any character:A
is uppercase alphabet
Process returned 0 (0x0) execution time : 1.729 s
Press any key to continue.
```

**Problem name:** C program to enter week number and print day of week

**Source code:** int main(){

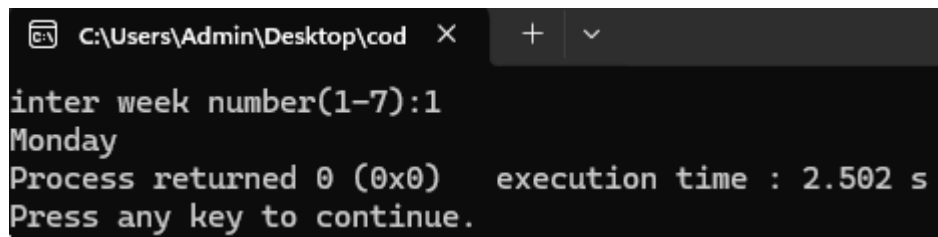
```
int week;
printf("Enter week number(1-7):");
scanf("%d",&week);
```

```

if(week==1){
    printf("Monday");
}
else if(week==2){
    printf("Tuesday");
}
else if(week==3){
    printf("Wednesday");
}
else if(week==4){
    printf("Thursday");
}
else if(week==5){
    printf("Friday");
}
else if(week==6){
    printf("Saturday");
}
else if(week==7){
    printf("Sunday");
}
else
{
    printf("invalid input! Please inter week number between 1-7");
}
return 0;
}

```

**Output:**



```

C:\Users\Admin\Desktop\cod > inter week number(1-7):1
Monday
Process returned 0 (0x0)   execution time : 2.502 s
Press any key to continue.

```

**Problem name:** C program to find days in month

**Source code:** #include<stdio.h>

```

int main(){
int month;
printf("inter the month number(1-12):");
scanf("%d",&month);
if(month==1){
    printf("It contains 31 days.");
}
else if (month==2){

```



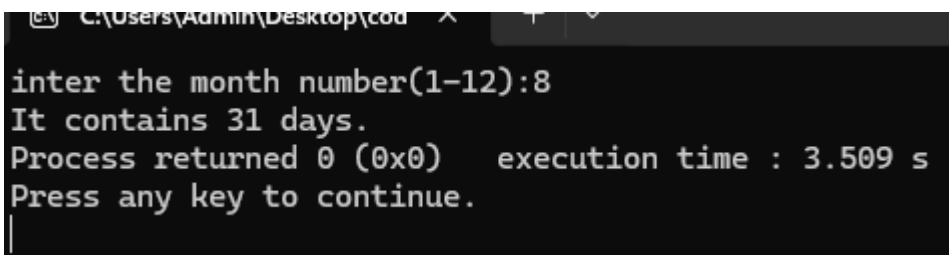
```

    printf("It contains 28 or 29 days.");
}
else if (month==3){
    printf("It contains 31 days.");
}
else if (month==4){
    printf("It contains 30 days.");
}
else if(month==5){
    printf("It contains 31 days.");
}
else if(month==6){
    printf("It contains 30 days.");
}
else if(month==7){
    printf("It contains 31 days.");
}
else if(month==8)
{
    printf("It contains 31 days.");
}
else if(month==9){
    printf("It contains 30 days.");
}
else if(month==10){
    printf("It contains 31 days.");
}
else if(month==11){
    printf("It contains 30 days.");
}
else if(month==12){
    printf("It contains 31 days.");
}
else{
    printf("invalid info! please inter the month (1-12)");
}

return 0;
}

```

**Output:**



```

C:\Users\Admin\Desktop\cod
inter the month number(1-12):8
It contains 31 days.
Process returned 0 (0x0)   execution time : 3.509 s
Press any key to continue.
|

```

**Problem name:** C program to find all roots of quadratic equation

**Source code:** #include<stdio.h>

#include<math.h>

int main(){

float a,b,c;

float root1,root2,imaginary;

float discriminant;

printf("Enter values of a, b, c of quadratic equation ( $aX^2 + bX + c$ ): ");

scanf("%f%f%f", &a, &b, &c);

discriminant= (b\*b)-(4\*a\*c);

if(discriminant>0)

{

root1=(-b+sqrt(discriminant))/(2\*a);

root2=(-b-sqrt(discriminant))/(2\*a);

printf("Two distinct and real roots exists: %2f and %2f",root1,root2);

}

else if(discriminant=0)

{

root1=root2=-b/(2\*a);

printf("two equal and real root exist: %2f and %2f",root1,root2);

}

else if(discriminant < 0)

{

root1 = root2 = -b / (2 \* a);

imaginary = sqrt(-discriminant) / (2 \* a);

printf("Two distinct complex roots exists: %2f + i%2f and %2f - i%2f",

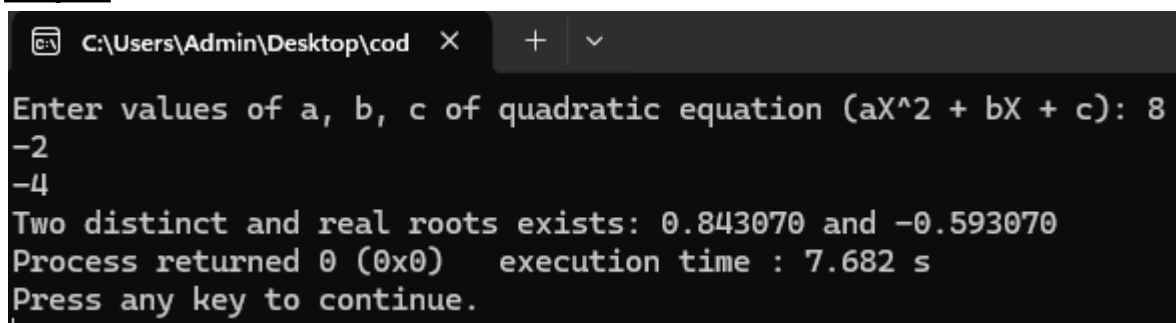
root1, imaginary, root2, imaginary);

}

return 0;

}

**Output:**



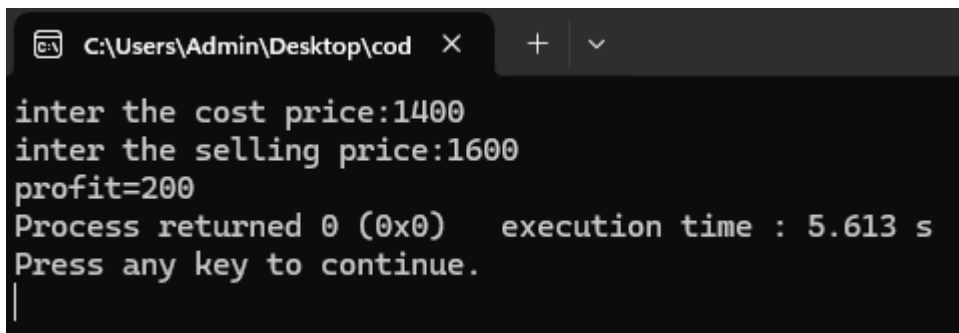
```
C:\Users\Admin\Desktop\cod X + v
Enter values of a, b, c of quadratic equation (aX^2 + bX + c): 8
-2
-4
Two distinct and real roots exists: 0.843070 and -0.593070
Process returned 0 (0x0) execution time : 7.682 s
Press any key to continue.
```

**Problem name:** C program to calculate profit or loss

**Source code:** #include<stdio.h>

```
int main(){
int cp,sp,amt;
printf("inter the cost price:");
scanf("%d",&cp);
printf("inter the selling price:");
scanf("%d",&sp);
if(sp>cp){
    amt=sp-cp;
    printf("profit=%d",amt);
}
else if(sp<cp){
    amt=cp-sp;
    printf("loss=%d",amt);
}
else{
    printf("no profit no loss");
}
return 0;
}
```

**Output:**



```
C:\Users\Admin\Desktop\cod  X  +  v

inter the cost price:1400
inter the selling price:1600
profit=200
Process returned 0 (0x0)   execution time : 5.613 s
Press any key to continue.
|
```