

PROBLEM-01: C program to find the maximum between two numbers.

```
#include<stdio.h>

int main(){

int num1,num2;

printf("Enter two numbers:");

scanf("%d%d",&num1,&num2);

if(num1>num2){

    printf("maximum = %d",num1);

}

else{

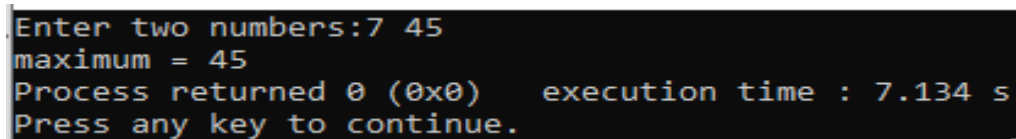
    printf("maximum = %d",num2);

}

return 0;

}
```

Output:



```
Enter two numbers:7 45
maximum = 45
Process returned 0 (0x0)   execution time : 7.134 s
Press any key to continue.
```

PROBLEM-2 :C program to find maximum between three numbers.

```
#include<stdio.h>

int main(){

int a,b,c;

printf("Enter three numbers:");

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

if(a>=b && a>=c){

    printf("maximum number is:%d\n",a);

}

else if(b>=a && b>=c){

    printf("maximum number is:%d\n",b);

}

else{

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

}

return 0;

}
```

Output :

```
Enter three numbers:
10 25 17
maximum number is:25

Process returned 0 (0x0)   execution time : 17.936 s
Press any key to continue.
```

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

```
#include<stdio.h>

int main(){

int num;

printf("Entter a number: ");

scanf("%d",&num);

if(num>0){

    printf("%d is positive\n",num);

}

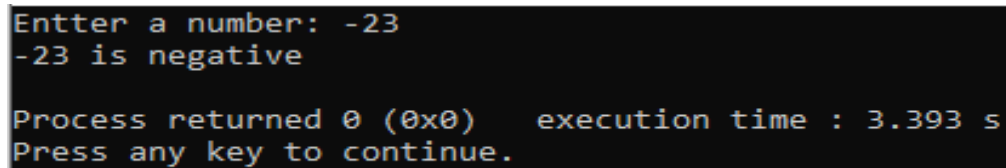
else if(num<0){

    printf("%d is negative\n",num);

}
```

```
else{  
    printf("%d is zero\n",num);  
}  
  
return 0;  
}
```

Output :



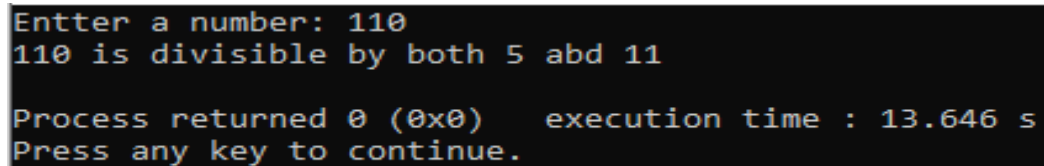
```
Enter a number: -23  
-23 is negative  
  
Process returned 0 (0x0)   execution time : 3.393 s  
Press any key to continue.
```

PROBLEM – 4: C program to check whether a number is divisible by 5 and 11 or not.

```
#include<stdio.h>  
  
int main(){  
  
int num;  
  
printf("Entter a number: ");  
  
scanf("%d",&num);
```

```
if(num%5==0 && num%11==0){  
    printf("%d is divisible by both 5 abd 11\n",num);  
}  
else{  
    printf("%d is not divisible by both 5 and 11\n",num);  
}  
  
return 0;  
}
```

Output:



```
Enter a number: 110  
110 is divisible by both 5 abd 11  
  
Process returned 0 (0x0)   execution time : 13.646 s  
Press any key to continue.
```

PROBLEM -5:C program check whether a number is even od odd.

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

```
int main(){
```

```
int num;

printf("Entter a number: ");

scanf("%d",&num);

if(num%2==0){

    printf("%d is even\n",num);

}

else{

    printf("%d is odd\n",num);

}

return 0;

}
```

Output:

```
Enter a number: 55
55 is odd

Process returned 0 (0x0)   execution time : 1.651 s
Press any key to continue.
```

PROBLEM -6 : C program to check leap year.

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

```
int main(){
```

```
int year;

printf("Entter a year: ");

scanf("%d",&year);


if((year%400==0) || (year%4==0 && year%100!=0)){

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

}

else{

    printf("%d is not a leap year\n");

}


return 0;

}
```

Output:

```
Enter a year: 1880
1880 is a leap year

Process returned 0 (0x0)   execution time : 13.988 s
Press any key to continue.
```

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

```
#include<stdio.h>

int main(){

char ch;

printf("enter a character:");

scanf("%c",&ch);


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

    printf("%c is an alphabet\n",ch);

}

else{

    printf("%c is not an alphabet\n",ch);

}

return 0;

}
```

Output:


```
enter a character:y  
y is an alphabet  
  
Process returned 0 (0x0)   execution time : 2.426 s  
Press any key to continue.
```

PROBLEM -8 :C program to check vowel or consonant.

```
#include<stdio.h>  
  
int main(){  
  
    char ch;  
  
    printf("enter an alphabet:");  
  
    scanf("%c",&ch);  
  
    if((ch>='A'&&ch<='Z') || (ch>='a'&&ch<='z')){  
  
        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\n",ch);  
  
        }  
  
        else{  
  
            printf("%c is a Consonant\n",ch);  
  
        }  
    }  
}
```

```

    }
}
else{
    printf("%c is not an alphabet\n",ch);
}

return 0;
}

```

Output:

```

enter an alphabet:u
u is a Vowel

Process returned 0 (0x0)   execution time : 3.184 s
Press any key to continue.

```

PROBLEM - 9 : C program to check whether a character is alphabet,digit or special character.

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

```
int main(){
```

```
char ch;

printf("enter a character:");

scanf("%c",&ch);

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

    printf("%c is an alphabet\n",ch);

}

else if(ch>='0'&&ch<='9'){

    printf("%c is a digit\n",ch);

}

else{

    printf("%c is a special character\n",ch);

}

return 0;

}
```

Output:

```
enter an character:5
5 is a digit

Process returned 0 (0x0)   execution time : 1.103 s
Press any key to continue.
```

PROBLEM-10: C program to check whether a character is uppercase or lowercase.

```
#include<stdio.h>

int main(){

char ch;

printf("enter a character:");

scanf("%c",&ch);


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

    printf("%c is uppercase\n",ch);

}

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

    printf("%c is lowercase\n",ch);

}

else{

    printf("%c is not an alphabet\n",ch);

}
```

```
}
```

```
return 0;
```

```
}
```

Output:

```
enter a character:Z
Z is uppercase
Process returned 0 (0x0)   execution time : 4.210 s
Press any key to continue.
```