

Questions  
CMQ18.

Write a program in C to check whether a number is a prime number or not using the function.

Test Data :

Input a positive number : 5

Expected Output :

The number 5 is a prime number.

Test Case

1. N = P
2. N = Q
3. N = 4
4. N = 11
5. N = 7

```
1. #include<stdio.h>
2. int primeornot(int);
3. int main()
4. {
5.     int n,prime;
6.     scanf("%d",&n);
7.     prime=primeornot(n);
8.     if(prime==1)
9.         printf("prime");
10.    else
11.        printf("not prime");
12.    }
13. int primeornot(int n)
14. {
15.     int i;
```

94°F  
Sunny

Search

Input a positive number : 5  
Expected Output :  
The number 5 is a prime number.

```
1. #include<stdio.h>
2. int primeornot(int);
3. int main()
4. {
5.     int n,prime;
6.     scanf("%d",&n);
7.     prime=primeornot(n);
8.     if(prime==1)
9.         printf("prime");
10.    else
11.        printf("not prime");
12.    }
13. int primeornot(int n)
14. {
15.     int i;
```

94°F  
Sunny

Search

Questions  
CMQ16.

Write a program in C to find the factorial of a given number using pointers.

Test Data :  
Input a number : 5

Expected Output :  
The Factorial of 5 is : 120

```
1. #include<stdio.h>
2. void factof(int ,int *);
3. int main()
4. {
5.     int n,fact;
6.     scanf("%d",&n);
7.     factof(n,&fact);
8.     printf("factirial %d",n,fact);
9. }
10. void factof(int num,int *f)
11. {
12.     int i;
13.     *f=1;
14.     for(i=1;i<=num;i++)
15.         *f=*f*i;
```

Questions  
CMQ11.

Write a Program to find the Maximum and Minimum value in a given array of numbers.

Sample Input:  
Enter no. of elements in an array 5  
Enter the elements:  
1 2 3 4 5

Output:  
Maximum of an array 5  
Minimum of an array 1

```
1. #include<stdio.h>
2. int main()
3. {
4.     int a[1000],i,n,min,max;
5.     scanf("%d",&n);
6.     for(i=0;i<n;i++)
7.     {
8.         scanf("%d",&a[i]);
9.     }
10.    min=max=a[0];
11.    for(i=1;i<n;i++)
12.    {
13.        if(min>a[i])
14.            min=a[i];
15.        if(max<a[i])
```

## Questions

## Test Cases

Write a Program to display the diagonal elements in a matrix array and also find the sum of them.

Sample input:

```
1 2 3
4 5 6
7 8 9
```

Output:

Diagonal Elements are 1 5 9  
Sum of diagonal elements = 15

```
1. #include<stdio.h>
2. int main()
3. {
4.     int a[10][10];
5.     int i,j,m,n,b=0,sum=0;
6.     scanf("%d%d",&m,&n);
7.     if(m==n)
8.     {
9.         printf("coefficients of matrix");
10.        for(i=0;i<m;i++)
11.        {
12.            for(j=0;j<n;j++)
13.            {
14.                scanf("%d",&a[i][j]);
15.            }

```

94°F  
Sunny

Search

## Questions

## CMQ13.

Write a program in C to add numbers using call by reference.

Test Data :

Input the first number : 5  
Input the second number : 6

Expected Output :

The sum of 5 and 6 is 11

## Test Cases

1. X = 0, N = 4
2. X = 5, N = 0
3. X = -3, N = 3
4. X = 0, N = 0
5. X = 123, N = 1

```
1. #include<stdio.h>
2. int add(int a,int b);
3.
4. int main()
5. {
6.     int d,c,sum;
7.     scanf("%d%d",&d,&c);
8.     sum=add(d,c);
9.     printf("sum of numbers%d",sum);
10. }
11. int add(int p, int t)
12. {
13.     int sum;
14.     sum=p+t;
15.     return sum;
16. }
```

## Questions

CEQ45.

Write a program to print inverted pyramid pattern.

## Test Cases

```
1. #include<stdio.h>
2. int main()
3. {
4.     int rows,cols,n;
5.     scanf("%d",&n);
6.     for(rows=1;rows<=n;rows++)
7.     {
8.         for(cols=n;cols<=rows;cols--)
9.         {
10.            printf("*");
11.        }
12.        printf("\n");
13.    }
14. }
```

28°C  
Mostly sunny

Q Search

