

COMPUTER SCIENCE : C++

PROGRAMMING IN C++

Write a program in C++ to print a message on output screen.

```
#include<iostream.h>
using namespace std;
void main()
{
    cout<<"Hello world";
}
```

Output:

```
Hello world
```

.Write a program in C++ to print an integer value.

```
#include<iostream.h>
using namespace std;
void main()
{
    int a;
    cout<<"Enter integer\n";
    cin>>a;
    cout<<"Integer is "<<a;
}
```

Output:

```
Enter integer
10
Integer is 10
```

Write a program in C++ to addition of two number.

```
#include<iostream.h>
using namespace std;
void main()
{
    int a,b,sum;
    cout<<"Enter the 1st number\n";
    cin>>a;
    cout<<"Enter the 2nd number\n";
    cin>>b;
    sum=a+b;
    cout<<"Sum of two number "<<sum;
}
```

Output:

```
Enter the 1st number
10
Enter the 2nd number
20
Sum of two number 30
```

Write a program in C++ to subtraction of two number.

```
#include<iostream.h>
using namespace std;
void main()
{
    int a,b,sub;
    cout<<"Enter the 1st number\n";
    cin>>a;
    cout<<"Enter the 2nd number\n";
    cin>>b;
    sub=a-b;
    cout<<"Subtraction of two number "<<sub;
}
}
```

Output:

```
Enter the 1st number
10
Enter the 2nd number
20
Subtraction of two number -10
```

Write a program in C++ to multiplication of two number.

```
#include<iostream.h>
using namespace std;
void main()
{
    int a,b,mul;
    cout<<"Enter the 1st number\n";
    cin>>a;
    cout<<"Enter the 2nd number\n";
    cin>>b;
    mul=a*b;
    cout<<"Multiplication of two number "<<mul;
}
```

Output:

```
Enter the 1st number
10
Enter the 2nd number
20
Multiplication of two number 200
```

Write a program in C++ to Division of two number.

```
#include<iostream.h>
using namespace std;
void main()
{
    int a,b,div;
    cout<<"Enter the 1st number\n";
    cin>>a;
    cout<<"Enter the 2nd number\n";
    cin>>b;
    div=a/b;
    cout<<"Division of two number "<<div;
}
```

Output:

```
Enter the 1st number
20
Enter the 2nd number
10
Sum of two number 2
```

Write a program in C++ to swap two number with the help of third variable.

```
#include<iostream.h>
using namespace std;
void main()
{
int a,b,c;
cout<<"Enter the first number\t";
cin>>a;
cout<<"\nEnter the second number\t";
cin>>b;
c=a;
a=b;
b=c;
cout<<"First number is\t"<<a;
cout<<"\nSecond number is\t"<<b;

}
```

Output:

```
Enter the first number    12
Enter the second number  13
First number is         13
Second number is        12
```

Write a program in C++ to swap two number without the help of third variable.

```
#include<iostream.h>
using namespace std;
void main()
{
int a,b;
cout<<"Enter the first number\t";
cin>>a;
cout<<"\nEnter the second number\t";
cin>>b;
a=a+b;
b=a-b;
a=a-b;
cout<<"First number is\t"<<a;
cout<<"\nSecond number is\t"<<b;
}
```

Output:

```
Enter the first number    12
Enter the second number  13
First number is         13
Second number is        12
```


Write a program in C++ to find the greatest number in two numbers with the help of if/else.

```
#include<iostream.h>
using namespace std;
void main()
{
int a,b;
cout<<"Enter the first number\t";
cin>>a;
cout<<"Enter the second number\t";
cin>>b;
if(a>b)
cout<<"Greatest number is\t"<<a;
else
cout<<"Greatest number is\t"<<b;
}
```

Output:

```
Enter the first number    12
Enter the second number  13
Greatest number is      13
```