- **FOP**

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Task#01

```cpp
#include <iostream>

using namespace std;

int main()
{
    int arr[10];
    cout<<"enter 10 number:";
    for(int i=0;i<10;i++){
        cin>>arr[i];
    }

    for(int i=0;i<10;i++){
        cout<<arr[i];
        if(i==9)
            continue;
            cout<<",";

    }
    return 0;
}
```
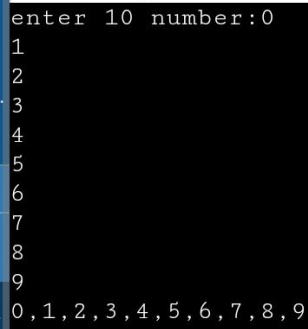
Output:

Task#02

```cpp
#include<iostream>

using namespace std;

int main(){

int arr[5];

cout<<"enter your desired 5 integers to find out their sum and product"<<endl;

int sum=0,product=1;
```

```cpp
for(int i=0;i<=4;i++) {


cin>>arr[i];

sum+=arr[i];

product*=arr[i];


}
```

cout<<"the sum of the entered integers is "<<sum<<endl;

cout<<"the product of the entered integers is "<<product<<endl;

return 0;

}

Output:

Task#03
```cpp
#include<iostream>
using namespace std;
int main(){

int n, half;
    cout<<"Enter the diamond size in terms of odd number only: "<<endl;
    cin>>n;
  char arr[n];
  half=n/2;

for(int i=0;i<n;i++){

  arr[i]=' ';}
```

```cpp
for(int i=0;i<=half;i++){

for(int j=0;j<n;j++){

    arr[half-i]='*';
    arr[half+i]='*';
    cout<<arr[j];
}
    cout<<endl;
}
for(int i=half;i>=0;i--){

for(int j=0;j<n;j++)
{
    arr[half-i]=' ';
    arr[half+i]=' ';
    cout<<arr[j];
}
    cout<<endl;
}
return 0;
}
```


Output:

The END