```
#include<iostream>
using namespace std;
int main()
{
       //TASK 1
//
       int num[10];
//
       for(int i=0;i<10;++i)
//
       {
//
       cout<<"enter integer "<<i<endl;</pre>
       cin>>num[i];
//
//
       }
//
       for(int n=0;n<10;++n)
//
       {
//
       cout<<" "<<num[n];
//
       }
return 0;
}
       //TASK 2
#include<iostream>
using namespace std;
int main()
{
//
       int foo[4],product=1,sum=0;
//
       foo[0]=1,foo[1]=2;foo[2]=3;foo[3]=4;foo[4]=5;
//
       for(int i=0;i<=4;i++)
//
       {
//
       sum=sum+foo[i];
//
       product=product*foo[i];
//
//
       cout<<"the sum is :"<<sum<<endl;</pre>
//
        cout<<"the product is :"<<pre>cout<<<endI;</pre>
```

```
return 0;
}
        //TASK 3
#include<iostream>
using namespace std;
int main()
{
int length, half;
        length=5;
        char diamond[length];
        half=length/2;
        for(int i=0;i<=length;i++)</pre>
        diamond[i] =' ';
        for(int i=0;i<=half;i++)</pre>
        {
                 for(int n=0;n<=length;n++)</pre>
                 {
                 diamond[half-i] = '*';
                 diamond[half+i] ='*';
                 cout<<diamond[n];</pre>
                 }
                 cout<<endl;
}
```

for(int i=0;i<=length;i++)</pre>

The output for task 1 is:

The output for task 2 is:

```
the sum is :15
the product is :120
------
Process exited after 1.976 seconds with return value 0
Press any key to continue . . .
```

The output for task 3 is:

