School Of Mechanical & Manufacturing Engineering, NUST



Department of Mechanical Engineering

CS-114 - Fundamental of Programing

Lab task # 07

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```
#include <iostream>
using namespace std;
int main ()
{
    int a [10]={} ;
for (int i=0 ; i<10;i++) {
       cout<<"enter number"<<endl;
       cin>>a[i];
}
for (int j=0; j<10; j++) {
       cout<<a[j]<<",";
}
    return 0;
}</pre>
```

output

Task 2

```
{
     int a[5]={} , b[5]={} ,sum1=0,sum2=0,sum=0,p1=1,p2=1,product=1;
     for (int i=0; i<5;i++) {
        cout<<"enter number for 1st array"<<endl;
        cin>>a[i];
     for (int j=0; j<5;j++) {
        cout<<"enter number for 2nd array"<<endl;
         cin>>b[j];
     for (int i=0; i<5;i++) {
     sum1 = sum1 + a[i];
     p1 = p1 * a[i];
        for (int j=0; j<5;j++) {
     sum2 = sum2 + b[j];
     p2 = p2 * b[j];
     sum= sum1 + sum2;
     cout<<"sum ="<<sum<<endl;
     product= p1 * p2;
     cout<<"product ="<<pre>roduct;
     return 0;
 }
```

Output

```
int n;
   cout<<"Enter an odd number of rows."<<endl;
   cin>>n;
   int half=n/2;
   char diamond[n];
   for (int i=0;i<n;i++){
       diamond[i]=' ';
   for (int i=0;i<=half;i++){
       for (int j=0;j<n;j++){</pre>
          diamond[half+i]='*';
           diamond[half-i]='*';
           cout<<diamond[j];
       cout<<endl;
   for (int i=0;i<n;i++){</pre>
   diamond[i]='*';
       for (int i=half;i>=0;i--){
           diamond[half-i]=' ';
           cout<<diamond[j];
       cout<<endl;
}
```

Output

```
D:\c++\lab tasks\lab task 7.exe

BSS Enter an odd number of rows.

ect 5

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Process exited after 1.923 second:

Press any key to continue . . .
```