

NATIONAL UNIVERSITY OF SCIENCES AND TEHNOLOGY

CS-114-FUNDAMENTAL OF PROGRAMING LAB MANUAL # 7

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≻ CLASS: ME 15

 \triangleright **SECTION: B**

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TASK # 1

CODE:

```
#include <iostream>
using namespace std;
int main(){
  int array[10];
  cout << "Please enter the array elements:\n";
  for(int i=0;i<10;i++){
    cin>>array[i];
  }
  for(int i=0; i<10;i++){
    cout << array[i] << "\t";
  }
  return 0;
    1</pre>
```

RESULT:



TASK # 2

CODE:

```
#include <iostream>
using namespace std;
int main(){
int array[5];
int sum=0;
int product=1;
cout<<"Please enter any 5 integers:\n";</pre>
for(int i=0;i<5;i++){
cin>>array[i];
}
for(int i=0;i<5;i++){
sum=sum+array[i];
}
cout<<"The sum of all integers is "<<sum<<".\n";
for(int i=0;i<5;i++){
product=product*array[i];
}
cout<<"The product of all integers is "<<pre>product<<".\n";</pre>
return 0;
}
```

RESULT:

```
Please enter any 5 integers:
5
5
5
5
7
The sum of all integers is 25.
The product of all integers is 3125.
------
Process exited after 2.977 seconds with return value 0
Press any key to continue . . .
```

TASK # 2

CODE:

```
#include <iostream>
using namespace std;
int main(){
int size;
cout<<"Enter The Size Of Diamond:";
cin>>size;
int half=size/2;
char diamond[size];
for(int i=0;i<size;i++){
  diamond[i]=' ';
}
for(int j=0;j<=size;j++){
  diamond[half-i]='*';</pre>
```

```
diamond[half+i]='*';
cout<<diamond[j];
}
cout<<endl;
}
for (int i=half-1;i>=0;i--){
  for (int j=0;j<size;j++) {</pre>
   diamond[half - i]='*';
   diamond[half + i]='*';
   if (j < half - i | |j > half + i) {
    cout<<' ';
   } else {
    cout<<diamond[j];</pre>
   }
  cout << endl;
 }
```

RESULT:

Enter The Size Of Diamond:7 *

*
Process exited after 2.218 seconds with return value 0
Press any key to continue