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CLASS: ME 15 C

Q01 Take 10 integer inputs from user and store them in an array and print them on screen.

CODE:

```
#include<iostream>
using namespace std;
int main() {
    int var[10];
    cout<<"Enter the nmbers: "<<endl;
    for(int i=0;i<10;i++){
        cin>>var[i];
      }
      for(int i=0;i<10;i++){
        cout<<var[i]<<" ";
      }
      return 0;
}</pre>
```

RESULT:

Q 02 Write a program to find the sum and product of all elements of an array with 5 integer elements.

CODE:

#include<iostream>

```
using namespace std;
int main() {
     int res[5];
     int sum=0;
     int product=1;
     cout<<"ENTER THE NUMBERS: "<<endl;
     for(int i=0;i<5;i++){
          cin>>res[i];
          sum=sum+res[i];
      product=product*res[i];
}
  cout<<"SUM = "<<sum<<endl;
     cout<<"PRODUCT = "<<pre>product;
     return 0;
RESULT:
ENTER THE NUMBERS:
SUM = 15
PRODUCT = 120
rocess exited after 4.131 seconds with return value 0
Press any key to continue . . .
Q 03 Print diamond pattern using a single array.
CODE:
#include <iostream>
using namespace std;
int main() {
  int row= 7;
  char diamondArray[row*row];
```

```
for (int i=0;i<row*row;i++) {
    diamondArray[i] =' ';
  }
  for (int i=0;i<=row/2;i++) {
    for (int j=row/2-i; j<=row/2+i;j++) {
       diamondArray[i*row+j]='*';
    }
  }
  for (int i=row/2+1;i<row;i++) {
    for (int j=i-row/2; j<3*row/2-i;j++) {
       diamondArray[i*row+j]='*';
    }
  }
  for (int i=0;i<row;i++) {
    for (int j=0; j<row;j++) {
       cout << diamondArray[i*row+j]<<' ';</pre>
    cout << endl;
  return 0;
RESULT:
```

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