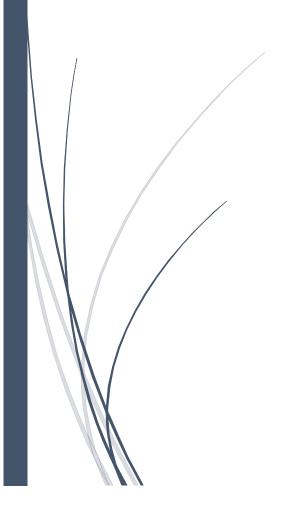
FUNDAMENTAL OF PROGRAMMING

LAB REPORT 7

HAIDER NAWAZ

480239

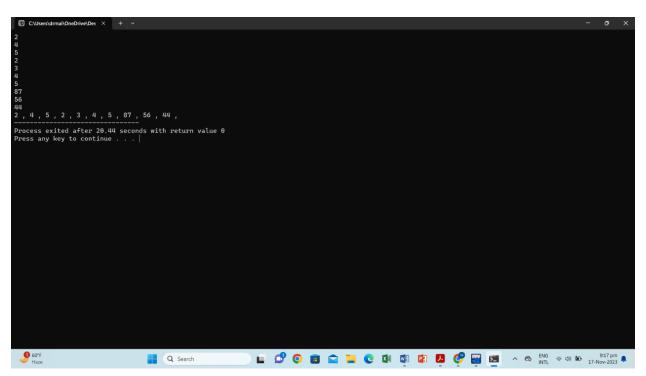


Take 10 integer inputs from user and store them in an array and print them on screen.

CODE:

```
#include<iostream>
using namespace std;
int main(){
int arr[10];
for(int x=0;x<10;x++){
cin>>arr[x];}
for(int x=0;x<10;x++){
cout<<arr[x]<<",";} }</pre>
```

OUTPUT:

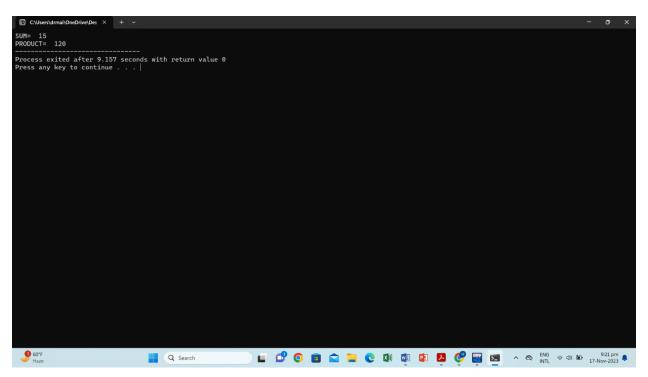


Write a program to find the sum and product of all elements of an array with 5 integer elements.

CODE:

```
#include<iostream>
using namespace std;
int main(){
    int arr[]={1,2,3,4,5};
    int sum=0;
    int product;
    for(int x=0;x<5;x++){
        sum=sum+arr[x]; }
    cout<<"SUM= "<<sum<<endl;
    for(int x=0;x<5;x++){
        product=product*arr[x];}
    cout<<"PRODUCT= "<<pre>product;}
```

OUTPUT:



Print diamond pattern using a single array.

CODE:

```
#include<iostream>
using namespace std;
int main(){
  int r=9,c=9;
  char dia[c];
  for (int i=0;i<c;i++){
    dia[i] =' '; }
  for (int j=0;j< r/2;j++){ //for loop to print up side of diamond
    for (int k=0;k<c;k++){
       if (k >= c/2-j\&\&k <= c/2+j){
         dia[k]='*';
      } else{
         dia[k] = ' ';
      }
      cout<<dia[k];
    }
    cout<<endl;
  }
  for(int k=0;k< r/2;k++){ //for loop to print lower side of diamond
    for (int i=0;i<c;i++){
```

```
if (i>=k+1&&i<=c-(k+2)) {
    dia[i]='*';
} else{
    dia[i]='';}
    cout<<dia[i];}</pre>
```

OUTPUT:

