Fop Lab Task 7

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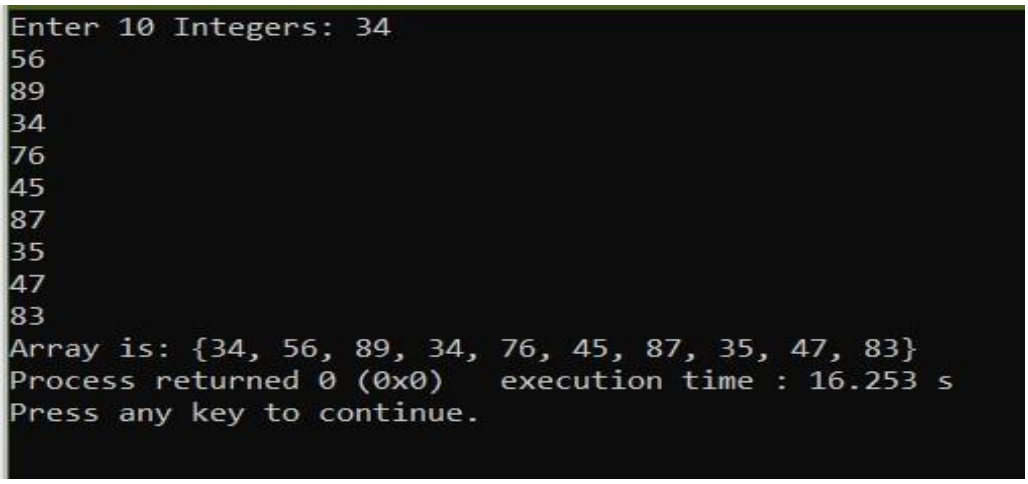
Section: B

TASK 1

```
#include <iostream>
using namespace std;
int main()
{
   int arrOfInts[10];

   cout<<"Enter 10 Integers: ";
   for (int i = 0; i<10; i++) {
      cin>>arrOfInts[i];
   }

   cout<<"Array is: {";
   for (int i = 0; i<10; i++) {
      cout<<arrOfInts[i];
      if (i == 9)
         continue;

      cout<<", ";
   }
```

```
    cout<<"}";
    return 0;
}
```

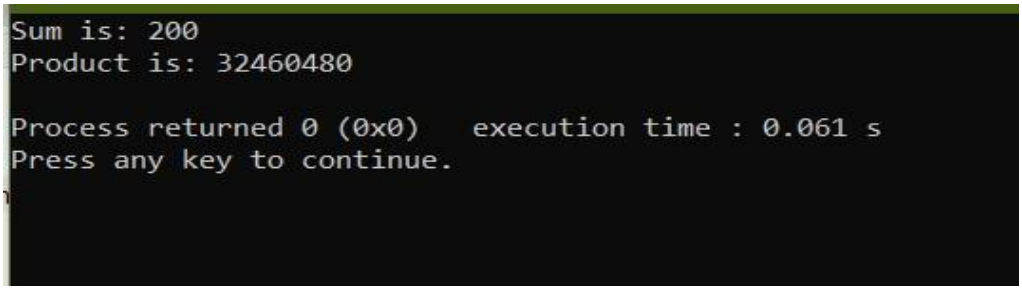
Output



TASK 2

```
#include <iostream>
using namespace std;
int main()
{
    int sum=0, product=1, fiveInts[5] = {34, 65, 12, 17, 72};

    for (int i = 0; i<5; i++) {
        sum += fiveInts[i];
        product *= fiveInts[i];
    }
    cout<<"Sum is: "<<sum<<endl;
    cout<<"Product is: "<<product<<endl;
    return 0;
}
```

Output



TASK 3

```
#include <iostream>
using namespace std;

int main()
{
   int daSize;
   cout<<"Enter the size of diamond (odd number only): ";
   cin>>daSize;

   if (daSize%2==0) {
      cout<<"Please enter an odd number";
      return 1;
   }
   char arr[daSize];

   for (int i = 1; i<=daSize; i+=2) {
      for (int j = 0; j<daSize; j++)
         arr[j] = ' ';
      int pos = (daSize-i)/2;
      for (int j = pos; j<pos+i; j++)
```

```
            arr[j] = '*';
        for (int j = 0; j<daSize; j++)
            cout<<arr[j];
        cout<<endl;
    }

    for (int i = daSize-2; i>=1; i-=2) {
        for (int j = 0; j<daSize; j++)
            arr[j] = ' ';
        int pos = (daSize-i)/2;
        for (int j = pos; j<pos+i; j++)
            arr[j] = '*';
        for (int j = 0; j<daSize; j++)
            cout<<arr[j];
        cout<<endl;
    }
    return 0;
}
```

Output