

ASSIGNMENT NUMBER 7

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TASK NUMBER : 01

```
#include<iostream>

using namespace std;

int main()
{
    int size;

    cout<<"Enter the size of an Array :";

    cin>>size;

    int arr[size]={};

    for(int i=0;i<size;i++){

        cout<<"Enter value to store in array"<<i<<":";

        cin>>arr[i];

    }

    for(int j=0;j<size;j++){

        cout<<arr[j]<<endl;

    }

}
```

TASK NUMBER 2

```

#include <iostream>

using namespace std;

int main()
{
    const int NUM_STUDENTS = 10;

    int hoursStudied[NUM_STUDENTS];

    std::cout << "Enter hours studied by each student:\n";

    for (int i = 0; i < NUM_STUDENTS; i++) {
        std::cout << "Student " << (i + 1) << ": ";

        std::cin >> hoursStudied[i];
    }

    std::cout << "\nHours Studied by Each Student:\n";

    for (int i = 0; i < NUM_STUDENTS; i++) {
        std::cout << "Student " << (i + 1) << ": " << hoursStudied[i] << " hours\n";
    }

    int maxHours = hoursStudied[0];

    int maxStudent = 1;

    for (int i = 1; i < NUM_STUDENTS; i++) {
        if (hoursStudied[i] > maxHours) {
            maxHours = hoursStudied[i];

            maxStudent = i + 1;
        }
    }
}

```

TASK NUMBER 3

```
using namespace std;

int main() {

const int SIZE #include <iostream>

= 7;

int numbers[SIZE];

int countMultiples = 0;


cout << "Enter seven integers:" << std::endl;

for (int i = 0; i < SIZE; i++) {

cout << "Number " << (i + 1) << ": ";

cin >> numbers[i];

}


for (int i = 0; i < SIZE; i++) {

if (numbers[i] % 5 == 0) {

countMultiples++;

}

}


cout << "\nNumber of integers that are multiples of five: " << countMultiples << endl;


return 0;

}
```

Task Number 4

```
#include <iostream>

using namespace std;

int main() {

    const int SIZE = 10;

    int numbers[SIZE];


    cout<< "Enter 10 numbers:" <<endl;

    for (int i = 0; i < SIZE; i++) {

        cout << "Number " << (i + 1) << ": ";

        cin >> numbers[i];

    }


    cout << "\nArray in Reverse Order:" <<endl;

    for (int i = SIZE - 1; i >= 0; i--) {

        cout << numbers[i] << " ";

    }


    return 0;

}
```

TASK NUMBER 5

```
#include <iostream>

using namespace std;
```

```
int main() {  
    const int SIZE = 10;  
    int numbers[SIZE];  
    cout << "Please enter 10 integers:" << endl;  
    for (int i = 0; i < SIZE; i++) {  
        cout << "Enter integer " << i + 1 << ": ";  
        cin >> numbers[i];  
    }  
  
    cout << "\nArray in reverse order:" << endl;  
    for (int i = SIZE - 1; i >= 0; i--) {  
        cout << numbers[i] << " ";  
    }  
  
    cout << endl;  
    return 0;  
}
```