ASSIGNMENT---4

1. WAP to display all the arrays values multiple of 2.

2. WAP to find the max and min in an array

#include <bits/stdc++.h>

using namespace std;

int main()

{

int arr[] = {4,14,24,34,44};

int n = sizeof(arr) / sizeof(arr[0]);

cout << "Numbers are \n";

for (int i = 0; i < n; i++)

cout << arr[i] << " \n";

cout <<"Minimum number is \n"<< \*min\_element(arr, arr + n)<<endl;

cout <<"Maximum number is \n"<< \*max\_element(arr, arr + n)<<endl;

return 0;

}

3. WAP to reverse an array ??

#include <iostream>

using namespace std;

void reverseArray(int arr[],int n){

for (int low = 0,high = n - 1;low<high;low++,high--){

swap(arr[low], arr[high]);

}

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

cout << arr[i] << " ";

}

}

int main(){

int arrInput[] = {11,12,13,14,15};

cout<<endl<<"Array ";

for (int i = 0; i < 5; i++){

cout << arrInput[i] << " ";

}

int n = sizeof(arrInput)/sizeof(arrInput[0]);

cout<<endl<<"Reversed ";

reverseArray(arrInput, n);

return 0;

}

4. WAP to display only the even numbers in a an array ??

#include<iostream>

using namespace std;

class Even

{

public: void display(int N)

{

cout << "Even: ";

for (int i = 1; i <= 2 \* N; i++)

{

if (i % 2 == 0)

cout << i << " ";

}

}};

int main()

{

Even e;

e.display(10);

return 0;

}

5. WAP to display only the odd numbers in an array ??

#include<iostream>

using namespace std;

class Even

{

public: void display(int N)

{

cout << "Even: ";

for (int i = 1; i <= 2 \* N; i++)

{

if (i % 2 != 0)

cout << i << " ";

}

}};

int main()

{

Even e;

e.display(10);

return 0;

}

6. WAP to count the no of positive, negative and zero in an array ??

#include<iostream>

using namespace std;

class Number

{

public: void count()

{

int countp=0, countn=0, countz=0, arr[10], i;

cout<<"Enter 10 numbers : ";

for(i=0; i<10; i++)

{

cin>>arr[i];

}

for(i=0; i<10; i++)

{

if(arr[i]<0)

{

countn++;

}

else if(arr[i]==0)

{

countz++;

}

else

{

countp++;

}

}

cout<<"Positive Numbers = "<<countp<<"\n";

cout<<"Negative Numbers = "<<countn<<"\n";

cout<<"Zero = "<<countz<<"\n";

}};

int main()

{

Number n;

n.count();

}

7. WAP to count the no of even and odd in an array ??

#include<iostream>

using namespace std;

class Number

{

public: void count()

{

int countp=0, countn=0, arr[10], i;

cout<<"Enter 10 numbers : ";

for(i=0; i<10; i++)

{

cin>>arr[i];

}

for(i=0; i<10; i++)

{

if(arr[i]<0)

{

countn++;

}

else

{

countp++;

}

}

cout<<"Positive Numbers = "<<countp<<"\n";

cout<<"Negative Numbers = "<<countn<<"\n";

}};

int main()

{

Number n;

n.count();

}

8. WAP to display the max and min in an array ??

#include <bits/stdc++.h>

using namespace std;

class Max\_Min

{

public: void display()

{

int arr[] = {2,3,6,5,4,8};

int n = sizeof(arr) / sizeof(arr[0]);

cout << "Array: ";

for (int i = 0; i < n; i++)

{

cout << arr[i] << " ";

}

cout << "\nMin Element = "<< \*min\_element(arr, arr + n);

cout << "\nMax Element = "<< \*max\_element(arr, arr + n);

}};

int main()

{

Max\_Min mm;

mm.display();

return 0;

}

9. WAP to display the second highest no in an array

10. WAP to perform sorting in an array

11. WAP to search an specific element in an array

12. WAP to replace an existing element in an array on a specific position

13. WAP to add 2 arrays in 1 D.

14. WAP to find the sum of all the elements in an array

15. WAP to count the total no of elements in an array

16. WAP to replace all non positive integers with zero in an array

17. WAP to perform matrix addition

18. WAP to perform matrix multiplication

19. WAP to find the transpose of a matrix.

20. WAP to do multiplication of arrays in 1D.