

**QUESTION # 1**

```

#include <iostream>
using namespace std;
int main ()
{
    int
    A[10],max=INT_MIN,min=INT_MAX,ix=0,i
    n=0;

    for (int a=0;a<10;a++)
    {
        cout << "Enter :
";cin>>A[a];cout<<endl;
    }
    for (int a=0;a<10;a++)
    {
        if (max<A[a])
        {
            max=A[a];
            ix=a;
        }
        if (min>A[a])
        {
            min=A[a];
            in=a;
        }
    }
}

```

```

    }

    cout <<"Maximum Value is : "<<max
    <<" at index " << ix<<endl;

    cout <<"Minimum Value is : "<<min
    <<" at index " << in<<endl;

    return 0;
}

```

The screenshot shows a Windows command prompt window titled "C:\Users\HD\Desktop\Q1.exe". The program prompts the user to enter 10 integers. The inputs are: 2, -4, 25, 7, -34, -5, 58, -46, 23, and 1. The program then outputs: "Maximum Value is : 58 at index 6" and "Minimum Value is : -46 at index 7". Below this, it states "Process exited after 30.54 seconds with return value 0" and "Press any key to continue . . .".

**QUESTION # 2**

```

#include <iostream>

using namespace std;

int main()
{
    float A[10],s=0;

    for(int a=0;a<10;a++)
    {

        cout <<a+1<< " Enter :
";cin>>A[a];cout<<endl;

        s+= A[a]; }

    cout << "SUM is : "<<s
<<endl<<endl;

    cout << "Average is : "<<
s/10<<endl;

    return 0;}

```

```

C:\Users\HD\Desktop\Q2.exe
1 Enter : 1
2 Enter : 2
3 Enter : 3
4 Enter : 4
5 Enter : 5
6 Enter : 6
7 Enter : 7
8 Enter : 8
9 Enter : 9
10 Enter : 10
SUM is : 55
Average is : 5.5
-----
Process exited after 29.11 seconds with return value 0
Press any key to continue . . .

```

**QUESTION #3**

```

#include <iostream>

using namespace std;

float sum(float[10]);

int main()
{

    float A[10],s;

    s = sum(A);

    cout << "Sum is : "<<s<<endl;

    return 0;

}

float sum(float s[10])
{

    float b=0;

    for (int a=0;a<10;a++)
    {

        cout<<a+1 << " Enter :
";cin>>s[a];

        b+=s[a];

    }

    return b;

}

```

```

1 Enter : 12.5
2 Enter : 32.2
3 Enter : 56.9
4 Enter : 1.5
5 Enter : 6.9
6 Enter : 6.5
7 Enter : 3.8
8 Enter : 34
9 Enter : 2.4
10 Enter : 23
Sum is : 179.7

-----
Process exited after 47.82 seconds with return value 0
Press any key to continue . . .

```

#### QUESTION # 4

```

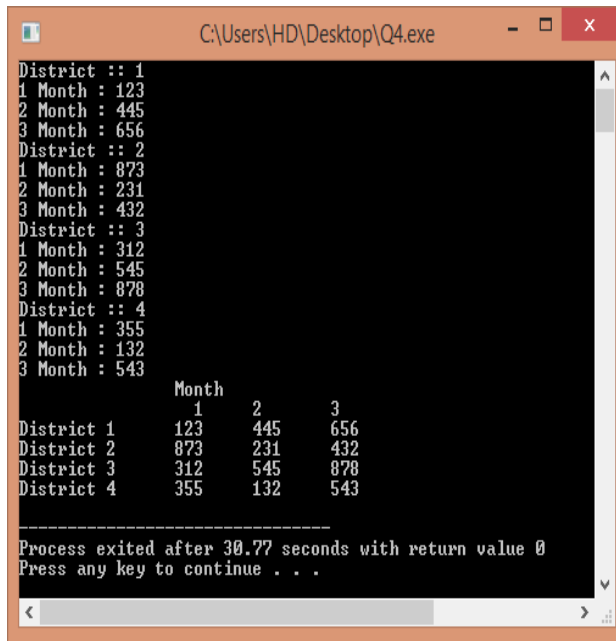
#include <iostream>
using namespace std;
int main ()
{
    const int m=3,d=4;
    double s[d][m];
    for (int a=0;a<d;a++)

```

```

{
    cout << "District ::
"<<a+1<<endl;
    for (int b=0 ;b<m;b++)
    {
        cout << b+1 << "
Month : ";cin>>s[a][b];
    }
    cout << "\t\t"
<<"Month"<<endl;
    cout << "\t\t 1\t2\t3"<<endl;
    for (int a=0;a<d;a++)
    {
        cout << "District
"<<a+1<<'\t';
        for (int b=0 ;b<m;b++)
        {
            cout <<
s[a][b]<<'\t';
        }
        cout <<endl;
    }
    return 0;
}

```



```

C:\Users\HD\Desktop\Q4.exe
District :: 1
1 Month : 123
2 Month : 445
3 Month : 656
District :: 2
1 Month : 873
2 Month : 231
3 Month : 432
District :: 3
1 Month : 312
2 Month : 545
3 Month : 878
District :: 4
1 Month : 355
2 Month : 132
3 Month : 543

      Month
District 1      1      2      3
District 2      1      2      3
District 3      1      2      3
District 4      1      2      3
-----
Process exited after 30.77 seconds with return value 0
Press any key to continue . . .

```

### QUESTION # 5

```

#include <iostream>

#include <math.h>

using namespace std;

int main()
{
    int a = -29;

    int b = 5 ;

    int d = 0 ;

    float c = 7.52;

    cout << "Square root of " << b << "
: " << sqrt(b) << endl;

```

```

    cout << "Absolute value of " << a <<
" : " << abs(a) << endl;

```

```

    cout << "Power (2) of " << c << " :
" << pow(c,2) << endl;

```

```

    cout << "Power (4) of " << b << " :
" << pow(b,4) << endl;

```

```

    cout << "Sin value of " << c << " :
" << sin(c) << endl;

```

```

    cout << "Cos value of " << d << " :
" << cos(d) << endl;

```

```

    cout << "Tangent value of " << b <<
" : " << tan(b) << endl;

```

```

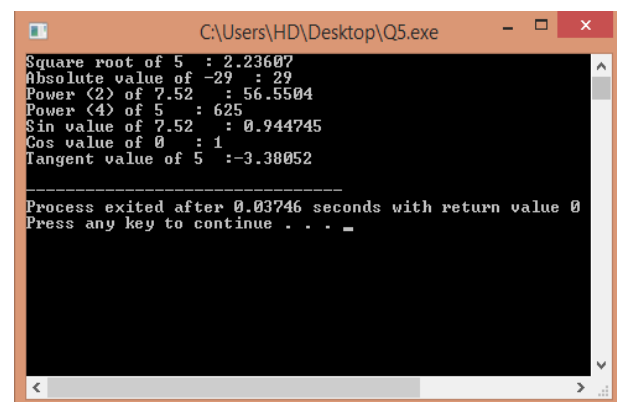
    return 0;

```

```

}

```



```

C:\Users\HD\Desktop\Q5.exe
Square root of 5 : 2.23607
Absolute value of -29 : 29
Power (2) of 7.52 : 56.5504
Power (4) of 5 : 625
Sin value of 7.52 : 0.944745
Cos value of 0 : 1
Tangent value of 5 : -3.38052

Process exited after 0.03746 seconds with return value 0
Press any key to continue . . .

```

**QUESTION #6**

```
#include <iostream>

#include <math.h>

double area (float);

using namespace std;

int main()
{
    float r;

    cout << "Enter the radius : 
";cin>>r;

    cout << "Area of Circle is : "<<
area(r)<<endl;

    return 0;
}

double area (float c)
{
    double a;

    a = pow(c,2)*3.1416;

    return a;
}
```

