

DAY – 1 (26/09/22) K.UDAYKUMAR(192110467)

Object Oriented Programming with C++.-DSA0136

Programs:

- 1) Write a C++ Program to print Your Name.

```
#include<iostream>

using namespace std;

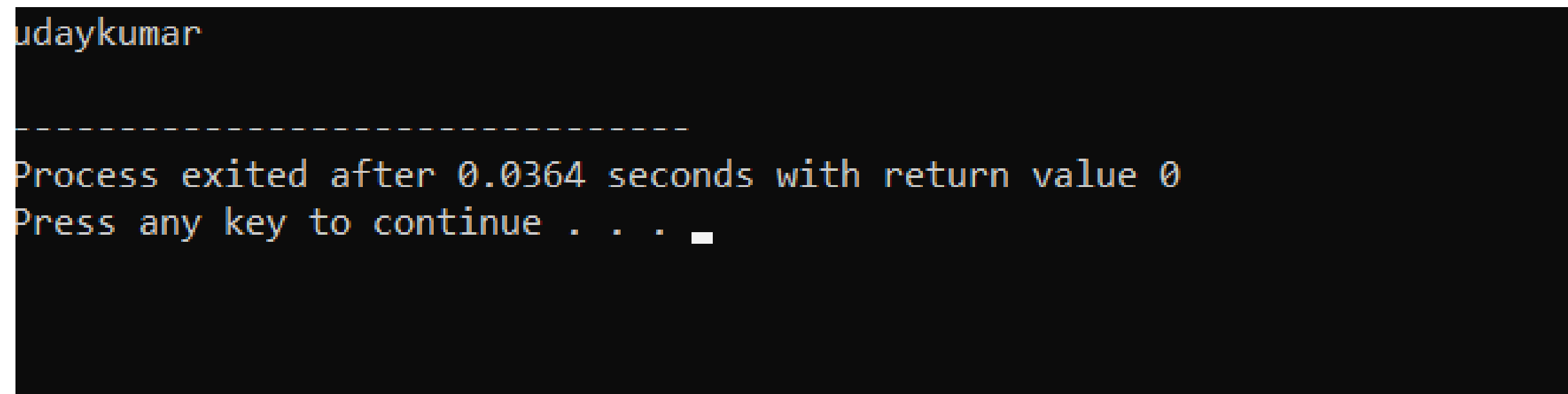
int main()

{

    cout<<"udaykumar\n";

}
```

Output:



```
udaykumar
-----
Process exited after 0.0364 seconds with return value 0
Press any key to continue . . .
```

- 2) Write a C++ Program to find the mathematical Operations.

Program:

```
#include<iostream>

using namespace std;

int main()

{

    int a,b,c,d,e,f,g;
    cout<<"Enter the value of A = ";
    cin>>a;
    cout<<"Enter the value of B = ";
    cin>>b;
    c=a+b;
    d=a-b;
```

```

        e=a*b;
        f=a/b;
        g=a%b;
        cout<<"\nsum of A and B = "<<c;
        cout<<"\ndifference of A and B = "<<d;
        cout<<"\nproduct of A and B = "<<e;
        cout<<"\ndivision of A and B = "<<f;
        cout<<"\nModulus of A and B = "<<g;
        return 0;
    }

```

Output:

```

Enter the value of A = 56
Enter the value of B = 5

sum of A and B = 61
difference of A and B = 51
product of A and B = 280
division of A and B = 11
Modulus of A and B = 1
-----
Process exited after 8.908 seconds with return value 0
Press any key to continue . . .

```

3) Write a C++ program to find the biggest of two numbers.

Program:

#include<iostream>

using namespace std;

int main()

{

int a,b;

cout<<"enter two numbers";

```

cin>>a>>b;

{

    if(a>b)

        cout<<"a is greater";

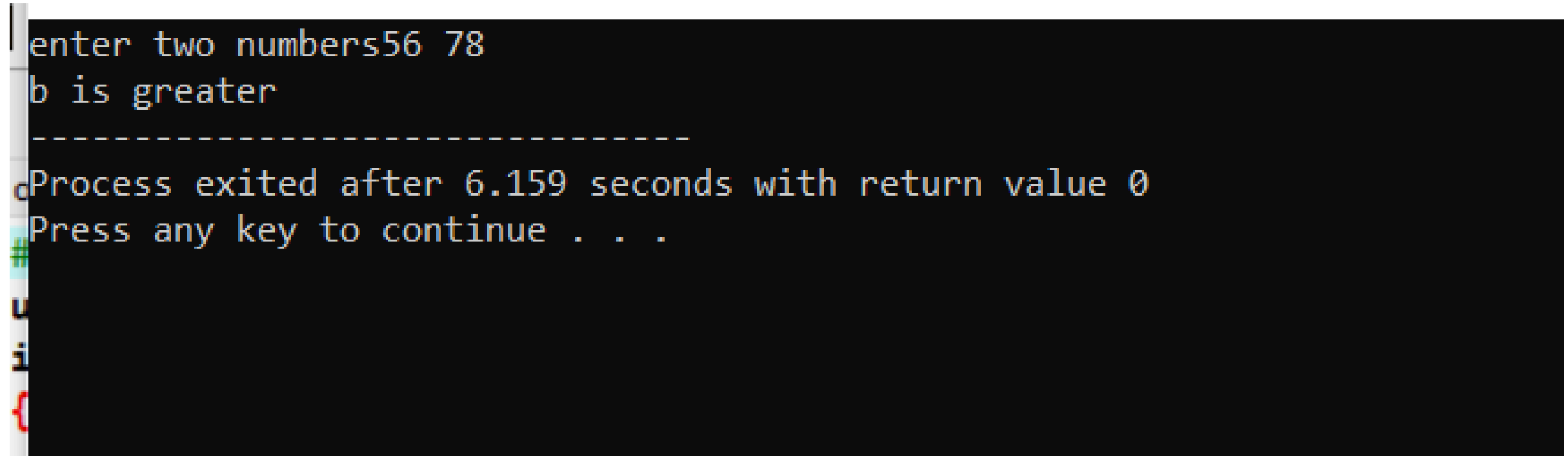
    else

        cout<<"b is greater";

}

```

Output:



```

enter two numbers56 78
b is greater
-----
Process exited after 6.159 seconds with return value 0
Press any key to continue . . .

```

4) Write a C++ program to find the given number is Odd or Even.

Program:

```

#include<iostream>

using namespace std;

int main()

{

    int n;

    cout<<"Enter the value of N = ";

    cin>>n;

    if(n%2==0)

    {

```

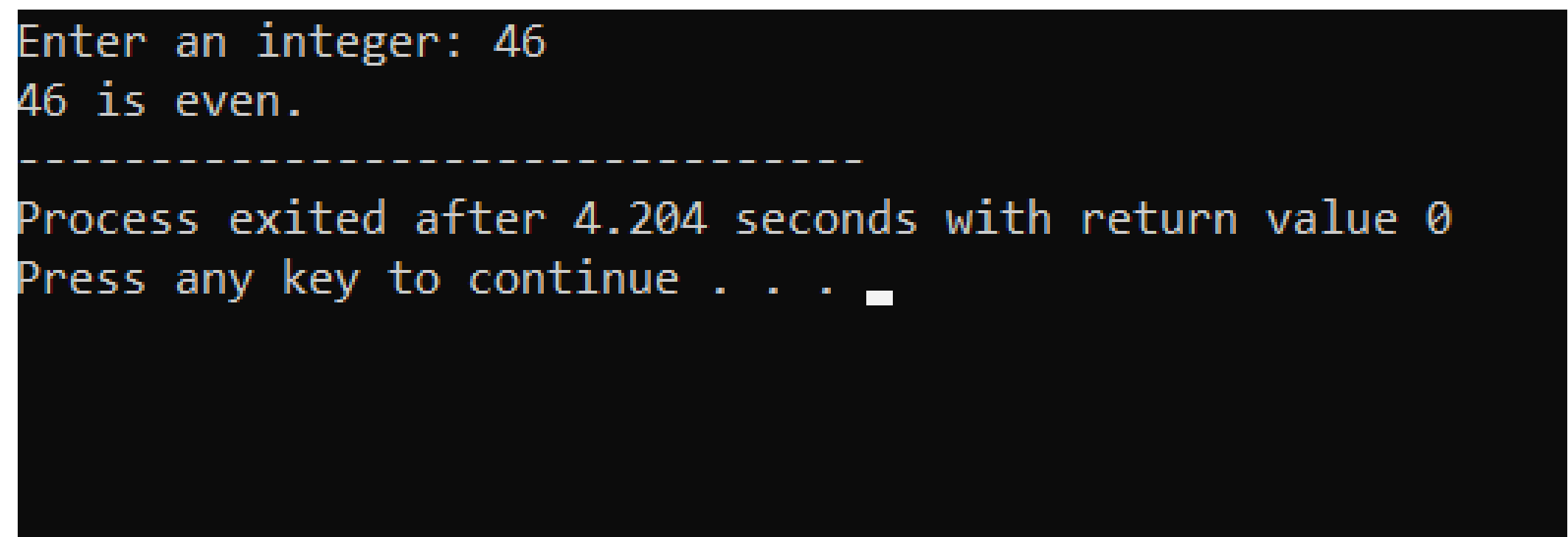
```

        cout<<"The given value is Even";
    }
    else
    {
        cout<<"The given value is Odd";
    }

    return 0;
}

```

Output:



```

Enter an integer: 46
46 is even.
-----
Process exited after 4.204 seconds with return value 0
Press any key to continue . . .

```

5) Write a C++ Program to find the person is eligible for voting or not:

Program:

```

#include<iostream>

using namespace std;

int main()
{
    float a;

    int r;

    cout<<"Enter your age = ";

    cin>>a;

```

```
r=a/1;
if(a>0)
{
    if(a>=0&& r*1==a)
    {
        if(a>=18)
        {
            cout<<"You are eligible";
        }
        else
        {
            cout<<"You are not Eligible for voting";
        }
    }
    else
    {
        cout<<"Invalid input";
    }
}
else
{
    cout<<"Invalid Input";
}
return 0;
}
```

Output:

```
Enter the age18
eligible to vote
-----
Process exited after 3.854 seconds with return value 0
Press any key to continue . . .
```

```
Enter your age = 12
You are not Eligible for voting
-----
Process exited after 8.703 seconds with return value 0
Press any key to continue . . .
```

```
Enter your age = 45.6
Invalid input
-----
Process exited after 6.489 seconds with return value 0
Press any key to continue . . .
```

6) Write a C++ program to print the student report using the given Inputs:

Program:

```
#include<iostream>

using namespace std;

int main()
{
    int r,r1,r2,r3;

    char name[10];
```

```
float a,b,c,tot,avg;

cout<<"Enter the value of M1 = ";

cin>>a;

cout<<"Enter the value of M2 = ";

cin>>b;

cout<<"Enter the value of M3 = ";

cin>>c;

r1=a/1;

r2=b/1;

r3=c/1;

if(a>0 && b>0 && c>0)

{

    if(a>=0 && r1*1==a && b>=0 && r2*1==b && c>=0 && r3*1==c)

    {

        if(a>50 && a<=100 && b>50 && c<=100 && a>50 && a<=100)

        {

            tot=a+b+c;

            avg=tot/3;

            cout<<"total = "<<tot;

            if(avg>90)

            {

                cout<<"\nAvg ="<<avg<<"\nGrade:S";

            }

            else if(avg>80 && avg<=90)

            {

                cout<<"Avg ="<<avg<<"\nGrade:A";

            }

        }

    }

}
```

```
    }

    elseif(avg>70 && avg<=80)

    {

        cout<<"Avg ="<<avg<<"\nGrade:B";

    }

    elseif(avg>60 && avg<=70)

    {

        cout<<"Avg ="<<avg<<"\nGrade:C";

    }

    elseif(avg>50 && avg<=60)

    {

        cout<<"Avg ="<<avg<<"\nGrade:D";

    }

    else

    {

        cout<<"No Grade is Alloted";

    }

}

else

{

    cout<<"You Failed or Invalid input";

}

}

else

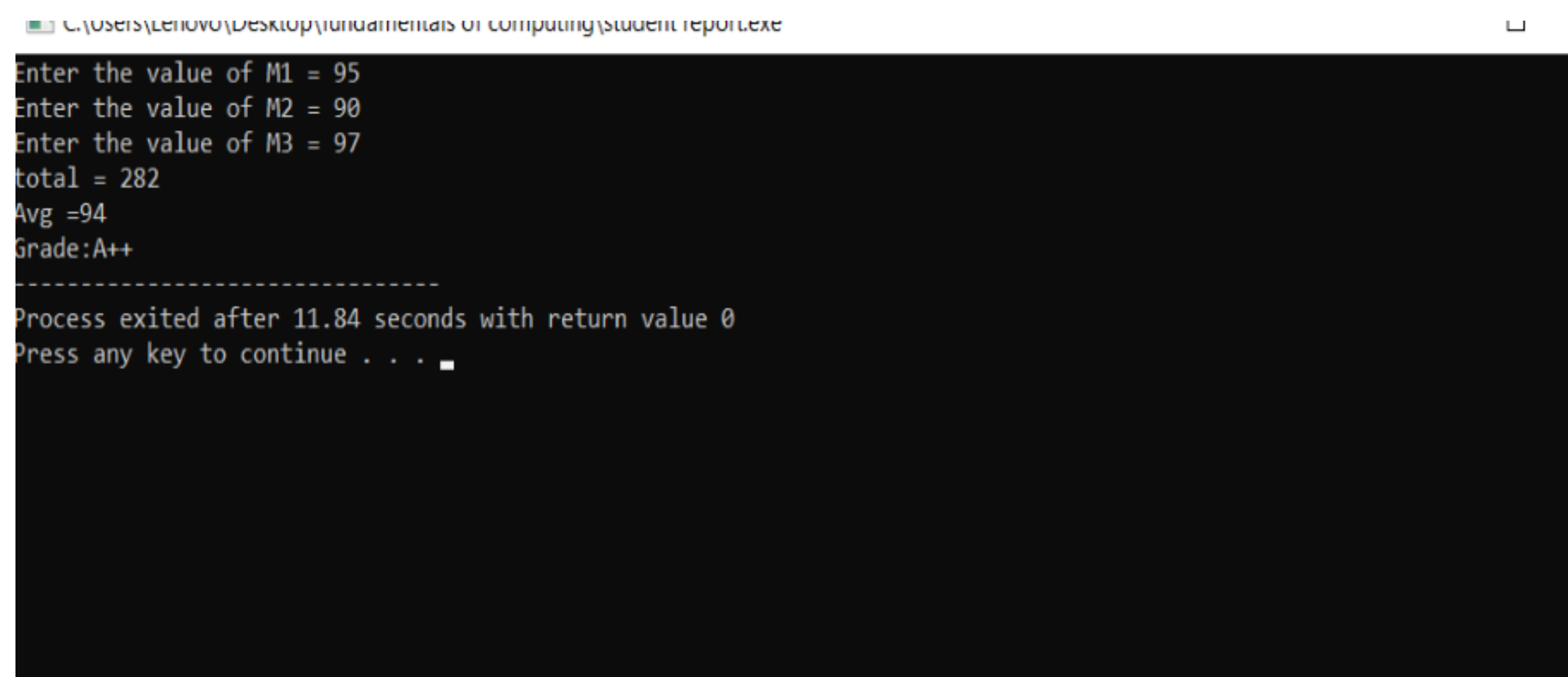
{

    cout<<"\nInvalid Input";
```



```
        }  
    }  
    else  
    {  
        cout<<"\nInvalid Input";  
    }  
    return 0;  
}
```

Output:



```
C:\Users\Lenovo\Desktop\Fundamentals of computing\student report.exe  
Enter the value of M1 = 95  
Enter the value of M2 = 90  
Enter the value of M3 = 97  
total = 282  
Avg =94  
Grade:A++  
-----  
Process exited after 11.84 seconds with return value 0  
Press any key to continue . . .
```