

**MA144: Problem Solving and
Computer Programming**

Lecture-16

Revision

Printing a string

```
#include<iostream>
using namespace std;
int main()
{

    cout<<"this is our first program";

    return 0;
}
```

```
this is our first program
```

Adding two numbers

```
#include<iostream>
using namespace std;
int main()
{
    int a=3, b=5, c;
    c=a+b;
    cout<<"sum of "<<a<<" and "<<b<<" is "<<c;

    return 0;
}
```

```
sum of 3 and 5 is 8
```

```
#include<iostream>
using namespace std;
int main()
{
    int a, b, c;
    cout<<"enter two numbers: ";
    cin>>a>>b;
    c=a+b;
    cout<<"sum of "<<a<<" and "<<b<<" is "<<c;

    return 0;
}
```

```
enter two numbers: 4 5
sum of 4 and 5 is 9
-----
```

Even integer or odd integer

```
#include<iostream>
using namespace std;
int main()
{
    int a;
    cout<<"enter an integer: ";
    cin>>a;

    if(a%2==0)
        cout<<a<<" is even integer";
    else
        cout<<a<<" is odd integer";

    return 0;
}
```

```
enter an integer: 7
7 is odd integer
```

```
enter an integer: 4
4 is even integer
```

Maximum of two numbers

Grading system

Marks range	Grade
$90 \leq m \leq 100$	S
$80 \leq m \leq 89$	A
$70 \leq m \leq 79$	B
$60 \leq m \leq 69$	C
$50 \leq m \leq 59$	D
$40 \leq m \leq 49$	E
$0 \leq m \leq 30$	F

```
#include<iostream>
using namespace std;
int main()
{   int m;
    cout<<"enter your marks between 0 and 100: ";
    cin>>m;
    if(90<=m&&m<=100)
        cout<<"your grade is S";
    else if (80<=m&&m<90)
        cout<<"your grade is A";
    else if (70<=m&&m<80)
        cout<<"your grade is B";
    else if (60<=m&&m<70)
        cout<<"your grade is C";
    else if (50<=m&&m<60)
        cout<<"your grade is D";
    else if (40<=m&&m<50)
        cout<<"your grade is E";
    else if (0<=m&&m<40)
        cout<<"your grade is F";
    return 0;
}
```

```
enter your marks between 0 and 100: 23
your grade is F
```