

Library that includes almost everything  
<bits/stdc++.h>

Absolute Value  
abs(number)

isdigit, isalpha & isupper

```
char x;  
cin>>x;  
if(isdigit(x)){  
    cout<<"IS DIGIT";  
}else if(isalpha(x)){  
    cout<<"ALPHA"<<endl;  
    if(isupper(x)){  
        cout<<"IS CAPITAL";  
    }else{  
        cout<<"IS SMALL";  
    }  
}
```

Casting

```
int n;  
float f;  
char c;
```

//int to char

```
cin>>n;  
c=n;  
cout<<c<<endl;
```

```
cout<<endl;
```

//char to int

```
cin>>c;  
n=c;  
cout<<n<<endl;
```

```
cout<<endl;
```

//float to int

```
cin>>f;  
n=f;  
cout<<n<<endl;
```

Greatest Comun Divisor

```
temp=__gcd(a, h);
```

Set Precision

```
cout<<fixed<<setprecision(9)
```

Size String

```
size=s.size();
```

```
toupper & tolower
char c;

cin>>c;

//ASCII conversions
cout<<tolower(c)<<endl;
cout<<toupper(c)<<endl;

cout<<endl;

//char type conversions
c=tolower(c);
cout<<c<<endl;
c=toupper(c);
cout<<c<<endl;
```