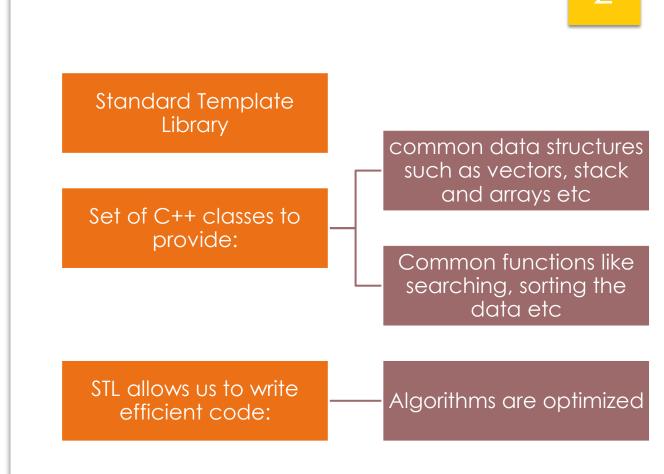


```
mirror_object
 peration == "MIRROR_X":
mirror_mod.use_x = True
mirror_mod.use_y = False
"Irror_mod.use_z = False
 _operation == "MIRROR_Y"
lrror_mod.use_x = False
 irror_mod.use_y = True
 irror_mod.use_z = False
  operation == "MIRROR_Z";
  rror_mod.use_x = False
  rror_mod.use_y = False
  rror_mod.use_z = True
 election at the end -add
   ob.select= 1
  er ob.select=1
   ntext.scene.objects.action
  "Selected" + str(modified
  irror ob.select = 0
 bpy.context.selected_obj
 undamentals of Programming:
  OPERATOR CLASSES STL in C++
```

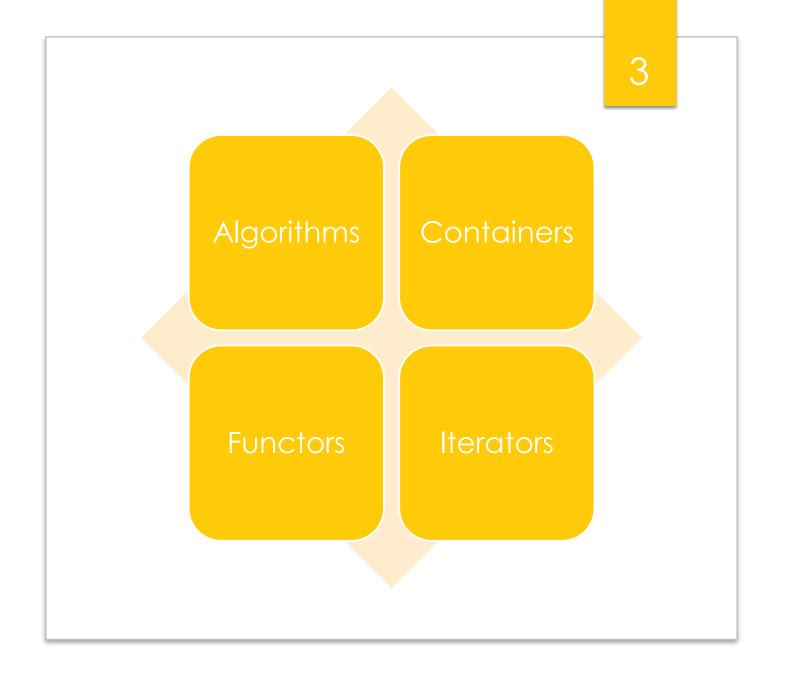
Abdul Haseeb

ypes.Operator):
X mirror to the selecter ject.mirror_mirror_x"

What is a STL



STL Components



Containers

Containers or container classes allow us to store data

- Vectors
- Lists
- Queue
- Stack

Vector

Vector is a dynamic array

It has ability to resize when an element is inserted or deleted

Vector class is defined in </e>

```
#include <vector>
using namespace std;

int main() {

vector<string> names;

names.push_back("Ali");
names.push_back("Ahsan");
cout<<names.size();
}</pre>
```

Creating a Vector

```
int main() {

vector<string> names;
string name;
for(int i=0;i<5;i++){{
    cin>>name;
    names.push_back(name);
}
```

Creating a vector

size() function

RETURNS THE SIZE OF A VECTOR

Iterating a Vector

Removing an element from the vector

```
int main() {

vector<string> names;

names.push_back("Ali");
names.push_back("Ahsan");

cout<<boolalpha<<names.empty();
}</pre>
```

```
false
-----
Process exited after 0.09914 seconds with return value 0
Press any key to continue . . .
```

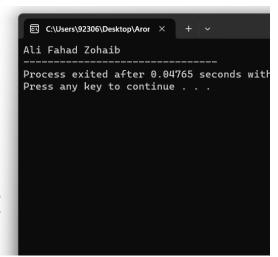
Checking if the vector is empty or not

```
vector<string> names;

names.push_back("Fahad");
names.push_back("Zohaib");
names.push_back("Ali");

sort(names.begin(),names.end());

for(auto n=names.begin(); n!=names.end(); n++){
    cout<<*n<<" ";
}</pre>
```



Algorithms

```
vector<string> names;

names.push_back("Fahad");
names.push_back("Zohaib");
names.push_back("Ali");
names.push_back("Fahad");

cout<<count(names.begin(),names.end(),"</pre>

cout<<pre>c\(\text{Users\92306\Desktk} \times \
```

Algorithms