C++ Programming - Lecture 8

Miscellaneous Issues

• Two types of comments can be used in C++:

```
si = p * n * r/ 100; /* formula */
si = p * n * r/ 100; // conversion formula
```

• Common usage:

```
/* .. */ - Use for multi-line comments
// - Use for single-line comments
```

• Variables can be defined just before point of usage. Example:

- :: is a scope resolution operator. It can be used for 2 purposes:
 - Define member functions outside a class:
 Sample :: void display() { .. }
 - 2) Distinguish between local and global variable of same name. Example: cout << a; // local variable a cout << ::a // global a
- Reference is a constant pointer that gets automatically dereferenced.
- Multiple references to a variable are allowed.
- We cannot create a reference to reference.
- · Array of references is not allowed.

Type Conversion

- For built-in types widening conversions happen implicitly, whereas narrowing conversion should be done using typecasting.
- Conversion from built-in type to user-defined type can be done using a constructor.
- Conversion from user-defined type to a built-in type can be done using overloaded typecast operator function.
- Conversion from one user-defined type to another can be done using a conversion function when the conversion function is in source object. This conversion function would be overloaded typecast operator function.

•	Conversion from one user-defined type to another can be done using a constructor when the conversion function is in destination object. This conversion function would be a constructor function.