

DAILY ASSESSMENT FORMAT

Date:	26 JUNE 2020	Name:	PREETHAM S RAI
Course:	C++ Programming	USN:	4AL18EC040
Topic:	Inheritance and Polymorphism Templates, Exceptions and Files	Semester & Section:	4 th sem 'A' sec
Github Repository:	PSRAIPREETHAM		

FORENOON SESSION DETAILS

Image of session



Function Templates

In our main, we can use the function for different data types:

```
template <class T, class U>
T smaller(T a, U b) {
    return (a < b ? a : b);
}

int main () {
    int x=72;
    double y=15.34;
    cout << smaller(x, y) << endl;
}

// Outputs 15
```

cpp

TRY IT YOURSELF



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Inheritance :Inheritance is a process in which one object acquires all the properties and behaviors of its parent object automatically.

Protected members A protected member variable or function is very similar to a private member but it provided one additional benefit that they can be accessed in child classes which are called derived classes.

Derived class constructor and destructor

Polymorphism

Virtual functions

Abstract classes :An abstract class in C++ is a class that has at least one pure virtual function.

Templates, Exceptions and Files

Function templates

Function templates with multiple parameters

Class templates A class template provides a specification for generating classes based on

Exceptions three keywords: try, catch, and throw

Working with files

More on files

