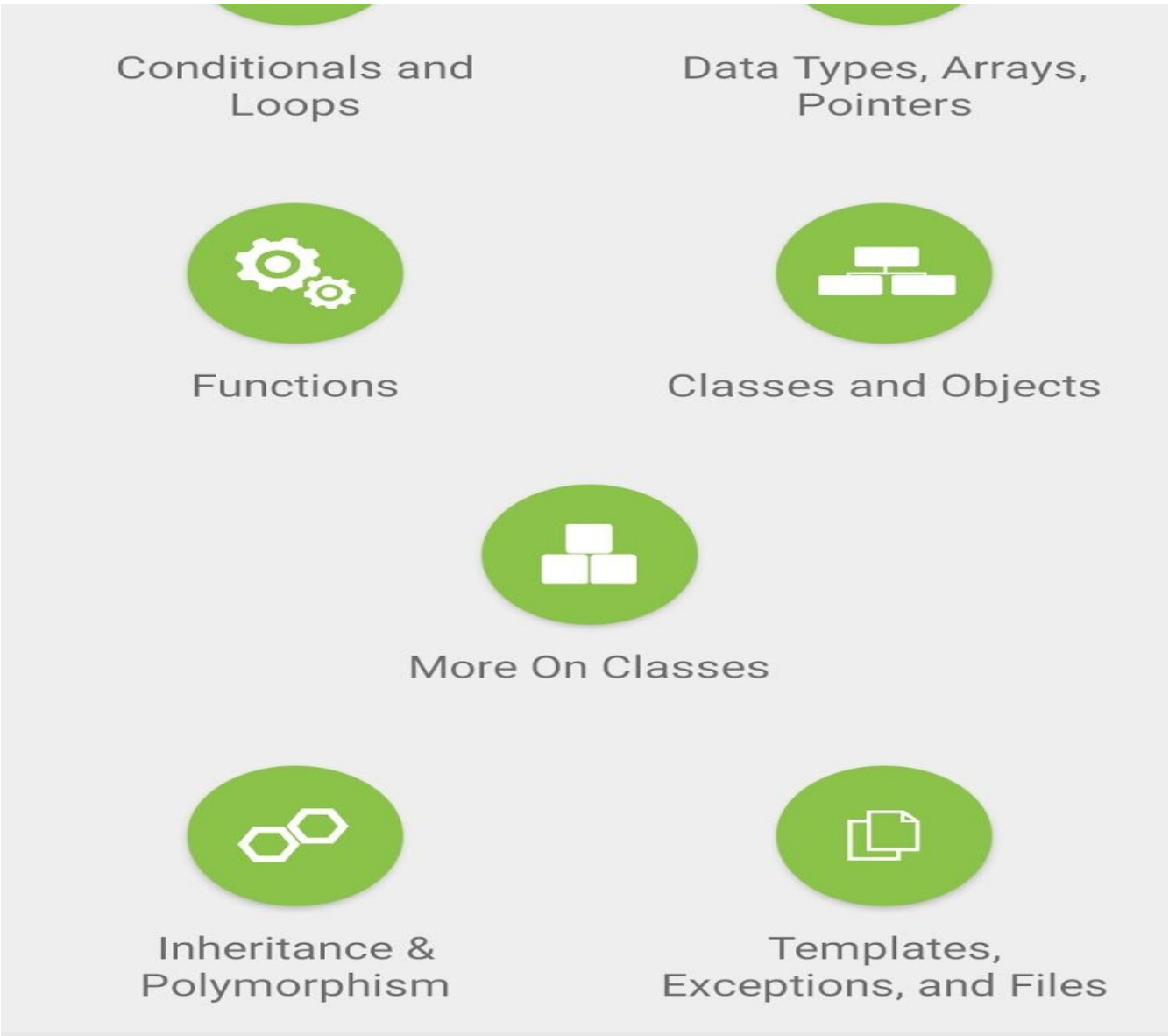
DAILY ASSESSMENT FORMAT

Date:	**25-06-2020**	**Name:**	**MOUNITHA D M**
Course:	**C++ programming**	**USN:**	**4AL17EC055**
Topic:	**Inheritance and polymorphism Templates ,Exceptions,and Files**	**Semester & Section:**	**6TH SEM "A" SEC**
Github Repository:	**Mounitha_-ec055**		

FORENOON SESSION DETAILS

Image of session



Report – Report can be typed or hand written for up to two pages.

C++ programming 25-06-2020

Module 7 : Inheritance & polymorphism

→ Inheritance :- This allows us to define a class based on other class. This facilitates greater use in creating and maintaing application.

→ Constructors :- The base class constructor is called first

→ Destructors :- The derived class destructor is called first and then the base class destructor gets.

→ Polymorphism :- This means that a class to a member function will cause a different implementation to be Executed depending on the type of object that invokes the function.

→ Virtual functions :- The virtual function in the base class with a corresponding version in a derived class, allows polymorphism.

→ Abstract classes :- The virtual member function without definition are known as pure virtual The Syntax is to replace their definition by = 0 The class are called abstract classes.

Module 8 :- Templates, Exceptions and Files

use templates to define functions as well as classes

To define a function template, use the keyword templ

as template allowing classes to have members that use template parameters as types

Exceptions :- The problems that occurs during program execution are called exceptions

C++ exception handling a built upon three keywords i.e try, catches and throw.

Files :- Three new data types are defined in fstream

ofstream : output file stream that creates & writes information to files

ifstream : Input file stream that reads information from files.

fstream : General file stream, with both of stream ifstream capabilities that allow to create read & write information to files.