Daily Assessment Josmat Name: Tyoti. s. Donny Date: 25/06/2020 Usn: 4ALITECO37 course: c++ programming Topic: inhesitance & polymosphism sepository jyoti-consses Forenoon session details Report The word polymosphism means having many forms typically, polymorphism ours when there is a hierarchy of classes, & tacy are related by inheritance, c++ polymosph -s mean that a call to a member junction will lause a different justo be executed. Inheritance & polymosphiem - Inhesitance is one in which a new class is created that inhesitance the projecties of the already exist class. it supports the contepts of code rensability & reduces the length of the code in object-oriented programming -> Types of inheritance are 1. single inheritance 2. Multi-level inheritance 3. Multiple Inhesitance 4. Hybrid inheritance 5. Hierarchial inheritance polymorphism is that in which we can perform a Task in multiple forms. Or ways. it is applied to the juis or methods. polymorphism allows that object to decide methods. polymorphism allows that object to decide

which jum of the function to implement at compile time as well as sun-time. types of polymorphism are
1 compile-time polymorphism (method overloading) 2. Run-time polymorphism (Method oversiding)

polymorphism in c++ The word polymorphism means having many forms. in simple worde, we can dezine polymor da oz polymorphism. phism as the ability of a mig to be displayed in more than one form lead life exi of jolymorphism, aperson at the same time can have different characterstic. Like a man same person diff behavious in diff situations. tens is called polymon phism, polymorphism is considered as one of the important geatures of oop. in c++ polymorphism is mainly divided into two types:

· Compiletime polymorphism

· funtime polymasphism

- in ctt, inheritance is aprocess in which one object acquire -cally in C++ the class which inheritas the members of another class is called derived class of the class whose members are ginherited is called base class.

The capability of a class to desive properties & characteristics grom another class is called inheritance inhesitance is one of the most impostant geature of oop. sub class: The class that inherits properties from another class: the class or derived class.

Nami: Jyohi & Donne Date: 25/06/2020 V3n: 4ALIAECO37 Course: ett programming Topic: Templates, exceptions, files Github Repository: jyoh-consses Afternoon session details Report Templates in 1++ -templates are the journation of generic programming which involves whiting code in a way that is independe - nt of any pasticular type. A template is a blue point or formula for creating ageneric class or a gus. tere library confainers like iteratively algorithm use exist generic programming & have been developed using template concept. There is a single definition of each container, such as rector, but we can define many lifterent kinds y rectors box ex: vector 2 intror vector A template is a simples yet very powerful tool in ett. -> 28tring> The simple idea is to pass datatype as a parameter so that we don't need to write the same code for different data types bor ex: a software company many need sort () for different date types. ett provides the following classes to perform output 4 input of characters to 1 grow files. · of & tream · ifskeam · Jeluan

the classes are derived directly or indirectly grow the classes as tream of istream. We have already noted Objects remose types were these classes. execution of a program. A c++ exception is a response to an exception at cisumstances. Head arises. while a program. Exceptions 18 running such as an, attempt to divide by Lieo. one part of a program-los another. c+t areption handling is built upon three teywords: Try, catch 4 terrow. Arsning a block will size an exception, a method catcher and exception using a combination of the try & cates Keywarde.