Module -> 1 week / 2 weeks / 3 weeks 100 Marks						
Lab Exam -> 40 Marks	16 Marks					
Internal Exam -> 20 Marks						
Theory Exams -> 40 Marks	S					
CPP						
GI I						
				]		
				C Programming		
			ASM			
		CPU	opcode			
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CPP -> OOP						
OOP -> Object Oriented	Programming					
1. Major	3					
- Abstraction			Abstraction			
- Abstraction - Encapsulation			- Getting to know only the essential things			
- Modularity			- Hiding unnecessary details			
- Hirerachy				,		
2. Minor						
- Typing/Polymorphism Encapsulation						
- Concurrency			- Binding of data and code together			
- Persistance						
			Modularity			
			<del></del>	the code into smaller modules		
int main	(){		Dividing	the code into sindici intoduics		
	Hello world");		Hirerachy			
scanf();			- Reusability			
return 0;			- has-a(association), is-a(inheritance)			
}	<i>'</i>		nas a(as	sociation), is a (initialities)		
,						
Date.h, Date.c	struct Emplo	yee{	struct Stud	lent{		
struct Date{	Date doj;					
int day;	Date dob;		}			
int month;	}					
int year;						
}						

Human has-a Heart Human is-a Heart // NOT OK Employee has-a Person // NOT OK Employee is-a Person

## Minor

- 1. Polymorphism
  - One entity that can take multiple forms
  - types of polymorphism
    - 1. Compile Time Polymorphism (Function Overloading)
    - 2. RunTime Polymorphism (Function Overriding -> Inheritance)

## 2. Concurrency

- Performing multiple tasks at the same time

-

## 3. Persistance

Student.cpp

Person.cpp

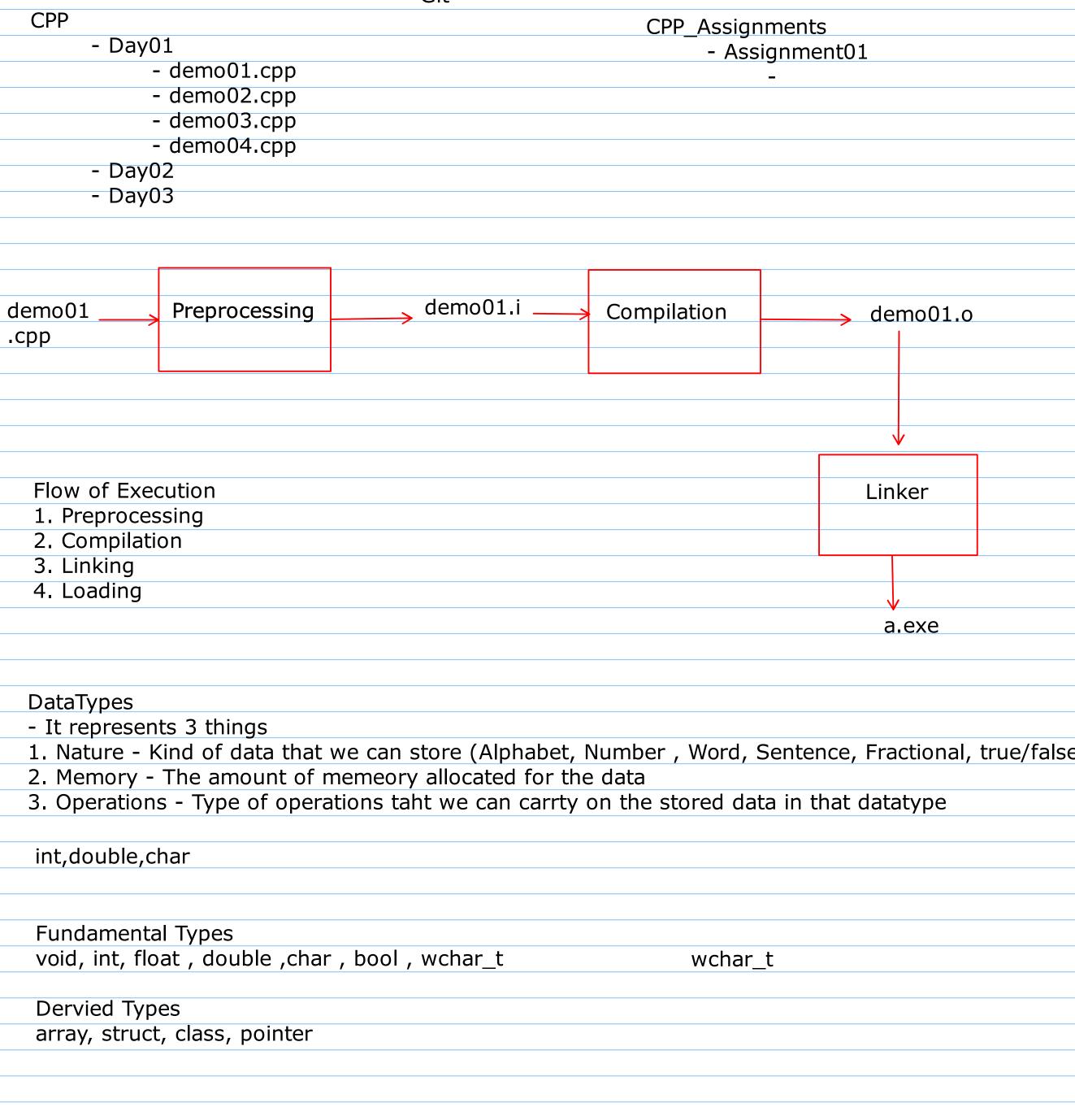
Date.cpp

- The way to save the data permanantly

## OOSD- Object Oriented Software Development

- 1. OOA Object Oriented Analysis
- 2. OOD Object Oriented Design
- 3. OOP Object Oriented Programming

e-Attend	dance	Design				
Student						
Employe	ee	class Student{	class Employee {	class Person{		
Atttenda	ance	int rollno;	int empid;	String name;		
Date		}	}	Date dob;		
Time				}		
class Attendance{						
	Date punchDate;					
	Time inPunch;					
	Time outPunch;					
		}				
OOP						
(	C++ CPP	POP	VS Code Editer			
		OOP	IDE			



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Inline
function overloading
default argument function
class
object
member functions