Assignment no:- 04

Topics covered:-

- · software Design , principle and concept
- · cohesion and coupling

Date of performance :- 23-03-2022

Evaluation Criteria	Marks (out of 3)	Date	Signature of Instructor
Punctuality	22		
Problem solving technique	22	23-08-2022	CA
Attainment level (out of 3)	2.2		1

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(Affiliated to the University of Mumbai)

Assian ment Mo-04

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Q.1> Desside tu sottware perion ; principle le concept.

Design principle. !-

Too every intertace dozion it shows usabilly characteristic like Eosponze time, help facilities i error hundling, menu se command laceling carplication accossibility, etc.

- · following an some softwar design principle
- · Anticipation i- medon 1:4 should bet the wer know i'b next step or next move
- · Commenication: let the use know the states of any activity initity

 4 him thrown. Some text mensure or through some imps
- · Consistency ?- mource maintained throughout the software design.
- Efficiency tre decision of the intertace mentione optimize to enquery coork etticieny
- · FOCUS; the software interfere should be on the user tokat hing
 - Learn acily: The application mute se designed to minimage learning time

· Concept of Design

- Of AGSTraction in when we consider moduler solution to the application there are many level of agstraction possible
- D'Architectres: Software asthitecture means the complete streets of the software, in the number of evers, this streets provide Gric he concepted integrity for a system.
 - the architecture is the complete structed or unrunnement of the program componers in Such a way that they interact with each other

1 patterns !_ is a set of the state of the state of the state of

- A pattern 10 a string thing which conveys to enence of & proven solution to a recurring proclem within a certain context.

@ mod warring.

The modulation consist of software assnithmen to design puttern.

i.e. software is divided separately according to name any
addressor of componer any sometimes it is carry as modular

& Information Hiding:

The module of the large peoplem must be specified to aesigned property so that information present within a module to not avallable to other module that do not requise such information.

Jerraly Fine

. madeate that perform teck that are Estated lookally is logically

(1) Functional Coherin :- function coherin is Said to exist it to

2) sequential Toherion: A module is said to process sequential cohesing

If the element of module from the componer of the sequence

difficient element of a module, cooperate to alhieve a

Coherive.

Type of modules (cherion:

simile function

- (3) Communicational coherjon: A module is said to have commentication coherion it all true of the module refer to or lepolate the sum daily street.
- (9) togical coherion: A module is said to a logically coherine it all the elements of the module perform a similar operation.
- (3) Temporal Coneyon: when a madule include function that associated by the tract all the method must be executed in the same time,

· Colepliny

- · Couply 12 a measure of inter-selarismship among varior module in softwar Struton coupling always appears on the interface complexing among modules. i.e. the point at which reference or entry is made to a module.
 - · it is also depends on what data passed across to intertue among modules
 - · Type of module coupliny:
- Mo-Disect Coupling: Treese is no clisect compliny Between Mitomz

The state of the s

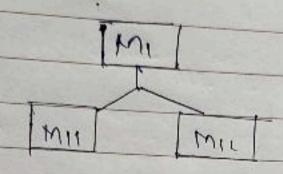
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2) Data coupliny: when data of one module to panel to contra. module this is called daty coupling.



- 3] Stamp coupliny = Two module one Stamp coupley if they communica uning composite date item such as strutane object, etc when to module panel non-91601 daty strewter.
- 4) Control Coursing :- Control Coursing exist among two marker 17 tous from one morphe is way to wisect by structure
- 5) Common Coupling :- Two modules are Common Couply 1 Fty Share Enterment - or through some steel data item.

