Grushti Shah 191071902 Software Engineering 11-MST T. Y. B. Tech. C. S Puc. 1) (i) ldophty the classes Pro gram Student Theory Exam (Procheal) FIRMINESUH enumerated [LHOT TO 312 (MST) (Fail Fail Pass ROSULT 1 1 esel (ii) Identify attributes of each class mergare Student Tool 2 + program\_id: int + student\_id int +test, B: int + program-name: string +student\_name: string + test\_date: Date + program \_departmen F: sming - phoneno: int + test hime ! Time + progrem\_instructor. Shing - date\_g birsth : pale + manns outof: in / age: int thi loniplao: on am -+ departmen + : smag + year: Dint Exam Treat 2 + gender: Gender. + exam\_id : in+ + testidiint - email- id: Smtreg + exam\_ type: Sming +test\_date: Dale + his pi-morton+ - addres : string. ttest time: Time tmollacout of inj Procheal Theory (ni.) oniotou - chrom texamid: int + examid int +program\_id:in+ + exam - date: Date + masks-out of int + exam\_time: Time a marks - obrain od int + maths\_out of : int

Fmanks abtaind : Int

+ desuH-prac: Final Rac 12

+ result theory: bid

MST
+ imst\_id:;nt
+ mst\_subject: Smins
+ mst pake: Dake
+ msfline: Time
+ mst marks: int
-mst-obtained: int

tese\_id:int

tese\_subject: Sminy

tese\_subject: Sminy

teseDate: Date

tese Time: Time

tese mann: int

tese obtaind:int

Robult

+ studentid: int

- terultid: int

- total proc: int

- total - obtained: int

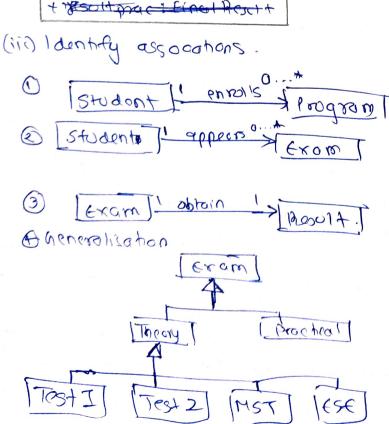
- total - obtained: int

- total - octof: int

+ final Plosuit: Phooleon

+ capp : floct

+ result prac: Final Plosuit



Civildentify methodo and prichons of each class

Program (program\_id)
enrollfar program()

@ student get be tails () update Details () entroll to Program ()

Login ()

(5) Tost 2 (morks\_outof=10) schooling Test () obtain Marks ()

@ ESE(int montroctof=60); schoolleTest() obtainmosts():int

@ prechearcint mans-octof=100); schoolie Toot (); obtain masks (): int obtain react (): toodyloult

3 Exam (examid, exam-ype)

get Petails ()

schedule Exam()

Test I (Int moths out of = 10);
school le Test ();
obtain marks (): int

6 MST

MST (imt morrs=20);

schedule Test ()

sotainmarks() in t

Acrolt (maths\_octof=200)
obtain Total (proc\_mans, theny); interpolation calculate Capa(): float
give final xesult (): Final Result

On Theory (int manufactof=100);
obtain Total (): int
result thony (): Final ness 11-1

Content Proch(a) inv : Self. 2000 obtained >40 Am

content Theory inv : self mans obtained >40

content result inv: final Result = PASS and total pract 40 and total pract 40

in, dorit ashdora diret schodont none smill wardus phone re in , bodowigily doir d. brith name I program. name: Smal \* mogram-department string + doportment : string 1 program Lina Moder: Sming dyour int \* gerdn: hond or + thogram (program\_id); - emailed: string enrell students (studend-id) Augum · add yar - Sm'ry. + student (student-id); - got Details () - Update Details atvocat) Shudat \_enrocitoprogram (program\_10) approvis + exorn-typo: smrg - 20gn() - Register(). +mogram\_id:h7 10tol:000070 Result Grom (exomid) tshodont -id int 1 Poto Hay740 got Potails () +real+-id:in+ Schodule Exam() - total-macingt Pracheal - to be 1 - theory : " nt texom -id:int - total - obtained: int 4 Gram Ldot: Date - total-outor: int + Gral Paul+: Fraingult. Texam Fine: Time +capot: fleet tenam -octot: yn1 morp-oblaired int + nesurt (mansout\_cf=200) troult proc Final Roult -obtain Total ( Bat-prec, retal-tay) + Pronheol ( int mansouto, 4=100) cocoloreapp. Floct School p. Toot(); Talka Real Ruct Ornal Punut Olcolote MODIN(): int obtain perult: Final Revit: Theory PRUN KTOV toxom\_1, d: Finolky L this producting the Pass F17 -+ mans-out cf: int -mores-obtained: int phymoxia - ron H Acrony: Final ABOUT molp femol + Thoony (int man-out of= loc), - obtain totat (): int + result Trock (): Ring Prount rse 72H TENT 2 TOSAI the id: 107 tmst\_id:Int Hentid int this bi-tith + ese subject story trost\_subject: Ong Henz Date Time: "DoteTim 41804 - DOLETINE : DOLETINE THE DAK : DOLLE + mul Date: Date Time + marks\_octof: int thorns outclint + one The : TIN + motmants: 10+ morn spraudit - mano \_dotain od in + esemants: int fni: enotdotem + 19. A) (01 = 10) Test [ morksochof = (C). - School Text () schoole Tent () receptand int schodup 18+() - obtain make 17 + CSE Coutif=60 -chromone sin + obtain mans (): int School Tont NST(OUT X > NO) - Obtain more Oil oust 2: Wordy Monogerunt.

(i) USE cossen.

Usa -10911

- return Book Cchock - sighted

- search bock

- issue book (cleck marm limit)

hibran - monoger system.

- Upade book sto to

- VICW book states

- Mronpook

-'1550e bock.

-calculate Aire.

(i) Heters USY Student Lihranon (Homin)

Cin) USC COR tempaH (i)USE Case Manage system Diagren Opdate Bookstor. Winchdos>> Check ISSUR BOOK Calculate Fino Collect pres «L'includes» Restun skeneu Issue Book Sta (4 4 holods>> ISSUR ripacuan VICW bOOKSTAND Rook Seorch USPV « ne locust < mcledy Student Login Rog1810)

Primary Actor is the User that Eachtaten the Ocelase. Secondary Actor is the Librarian That helps complete the We care.

Use Case : Issue book peariphon, user acquets to issue book from an available nog books you user and Librania Actor Excordition: The user downer have moximum imit of books - The book is ovioibhle. : The book is issued and book status is yndated. Post condton : 1. Uspro scorches for a boek and Flou requests for ppda a 2. Enter book IP, Autor, Bocknow. 3. If book in suchos shooknone makles ten get state of book else setum no book? 4. If the status of book = available a . Check if ver hove morimum book issued alike y if yes: " cannot Issae" b. flee: Issue The book 5. update the book stotus. 1. Book not found Alternate Flow 2. Moximem himt Reached a connot Issue the book b. Return abock.

in) use can tempat

