Learnings from project Bancking & yola (3) Char(n). Fixed length, always takes n' bytes. VarChar(n). Variable length, saves space. 19 & ean save them in Set to avoid duplication. Secuse Random sandom, new Secuse Random (); I random number generales for better randomners. Sot (long) generated Numbers: new Hash Sof <>(); Il stores already generated Numbers to ensure no olupticates. long number; 1 wandem new land) - Glenerates a vandom lag number. 11.9-- La ensure with in a 19- digit range. while (! generated Numba. add (number)); Il if mb is not in al Buth & number added. 1 ,, is in sol loops our 95 3 egrals is applied when it is storing probably but it is not applied on integer. 9 You declared get Number but clid not sealine inilialize I, causing an error . You must arrign a value before long et get Number; }

veturn get Number; }

* If next line (); in code doesn't work (doesn't take inputs). Than it is better to write an enta: to clear the buffer before calling newfline().

* Use sk. next line (); immedially after any next In ment Double, or sminler méthods to char buffer * Printf() formatting

1-> Used as placehoder in printf() to format output. 16 d > for integers (eg reservation ID, room number). 1.5 > for Strings (eg, guestime, contact Number). -14d = -14 means left-aligned & 14 spaces wide for wife -155 - 15 // Short Sol P ("17.-10d 17.-15s 17.-10d 1 n", 1, "John", 11 1 1 John 201. * gof Timestamp () used in TDBC to retrieve timstamp values (date and line) from a DB resulf Set. String reservation Date = 85 get Timestamp ("reseservation date) to Shoring * new moves cursos to new time row in a Resulf Set and returns towe if a sow exists, otherwise returns false

-> Your greeze must include account Number in SELECT statement, otherwise, you earl felch it. SELECT email-id, pin; account Number FROM account.

Solling connection sol Auto Commit (false); affects the entire connection Ospect, not just punction. It stays false antil enphately of to bue. It is go to use of It is a good practice; to set auto Commit (sue) in finally to restore default behaviour & avoid unexpected baneaction handling. database. (SELECT guery) doesn't Not not connection commit(); b/c it only reals data. stan oben common colors before closing Prepared Statements! stays open , causing memory looks. So it is good to use by with-scrower so Tava automatically closes Prefaced Stakement after use. Note: Catch is for handling exceptions & Generally, TWR for newby-with-resources. Super that needs to be closed on Super that needs to be closed on Super Connections Resultset etc. - Problem: Scanner next long () leaves a new line in suffer next line (); causing usues with subsegnent gautien: Add soanner. next line (); right ofter scanner nextless to consume the lefforer newline.

-> Isua If an exception occurs before commit(), change are not rolled back. Fix: - Ensure rollback (); is called inside eatch. -> TWR General Rule (Try-with Resources. Or TWR needs a catch when its not inside another by - catch b/c it only closes resources but cloesn't handle exception.

TWR is more effecient than manually calling scanner close(); b/c it ensures proper resource mgl even of an exception occurs. - Scanner next long (); crashes if the user enters non-numeric Use a loop & in which user enters a valid (non-nongative point) by repeasedly prempling until valid long is possibled.

Scannes new in this cocle consumes the crivalid input.