33/1 (21) String Programming, Encapsulation,
Github Colin Github Eclipse integration Agenda Agenda

D Palindrome

D Palindrome

D Anegram

(ii) Paugram 1 Encapsulation: Security, Rivate, Setter, getter 3 github Eelipk integration O Palindrome - A string to be a palidrome it it is the Same of we start reading it from left to right (on right to left) 2 mut: NITIN

6/p: "it is palichome". Code 1- String S1 = "NITIN"; String 52 = 41; for (int i = s1. length()-1; 17=0; 1--){ S2 = S2 + S1. Char At (1); if (sz. Equals (s2)) {

s.o.p(" it is palindrome"); Ele 1 ... p ("it is not Palindrome");

(2) Anagram: Two strings are Seid to be anagram of they make a Meaningful word by ocarranging on (or) shuffling the letters of the Eg HEART LESTEN CALLENT CODEL String 11 = 4 Race"; String SZ = "Carty" // Make all letters to lowerlane S1 == 52. townlower (are 1); S2 = S2. to lower (arel); 11 store them in an array. Char[] ch1 = s1. to CharArray (); Char CJ Ch2 = Sz to Char Away (); 11 Sort them in order Array s. Sort (ch2); Arrays. sort (chr); 11 Comparing two aways of characters if (Arroys, Equals (ch1, ch2)) h Elx { s.o.p("it's hot anagram"); }

y s.o.p("it's hot anagram");

3 Pangram + the String is Called a Pangram if it Contains all the alphabets from a to z (on A to 2, ignoring the Care sensitivity. Logic . THE QUECK BROWN FOX JUMPS OVER LARYDOG S17 (remove Spales befor) any cool IIIII array array Code: - Eg. The QUICK BROWN FOX JUMPS OVER LAZY DOG boolian flag = false;

String \$1 = "THE QUECK BROWN POX TUMPS OVER LAZY

DOG 4; // Replacing Spaces 11 = 51. replace (" ", ""); System. out print for (s1); 11 Creating an array Char E J & Char E J & Ch = 87. to char Array (); 11 Creating Empty away from 0 to 25 index. int[] ar = new int[26];

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// Moving through away ch for (inti=0; ich length; itt) { int index = ch[i]-65; [T-->84 (Ascae) [ar[19] = 0] [ar[19] + + = 1]ar [index]++; y the state of 1 Moving Horough ar for (int i=0; ix ar. length; itt) & if (ar[i] = = 0) L if (ar [i] = = 0) h S.O.P (" it's not Pangram"), flag = fne; if (flag = = false) h | mil list is Pangram");

System.out. Print line "it is Pangram"); 17. . 15. = 13 e at a most form the files of to a ontput: it is Pangram.

Oclais Student & data with No security ( ) DOP's ( Object-oriented Programming System) intage; Minstance Variable, Data Member, field Members, Properties.

String nanne;

String Coty; it is a Methodology (on Paradigm to design a frogram using classes and objects. TAVA - four pillars

(1) Encapsulation > Privacy (or Scennity > Binding.

(2) Inheritance > Code Reusability.

(3) Polymorphism > Code flexibility.

(4) Abetrackion Public Class Encap[

Public Static Void Main (string[] args) {

Public Static Void Main (string[] args) {

Public Static Void Main (string[] args) { Student st= new Student(); (a) Abstraction. -> implementation wing. only features are Visible. St. age = 28; St. name = "Hyder"; ( Encapsulation: is a process of wrapping lode st City = "Bengalum"; and data together into a Single unit. Example: a capsule which is Mixed of -> it is not good practice. Othere is no beauty for data.

-> Any one can access the data. Several Medicines. - Encapsulation: Odata hinding > We have provide restriction. data members Should only accepted withing the class. @ Data binding @ froviding seeurity Data Members. -) for security direct access should be restricted. -> Brivate, letter, getter, Hodev togorand Shadowing. GADDALA ASHISH in Linkedin

(3) Gretter and Setter in Java Security for data is provided by to using Krivate keyword. - if frevate tyword is used not one can → data can't be accessed outside the class.

→ it is accessed within the class. access the data and outside the class. > Variable are Created store data. data should be given by Someone ouritale class. -> the data taken from outside the Clau and ) instance (on object Variable. Code: data with Selvity. it is given to Variables. -> we have Control over data. Class Student & Ocetter + Be if a Method is relieving data from outside and let it to data member. Such method we called as letter. Rivate Stringname; Provate String Coty; -> setting value (or) data to Vanable -> Seller Sets (or) updates the value (and (Mutators). It sets the value for any Vanable used in a class programs. Public class Encape Public Static Void main (string[] args){ Detter: Getter returns the value (accessors),
it returns the value of data type int,
sting, double of float Etc.

Sting, double of with word get 4 followed

> getter starts with word Student St = new Student(); St. age = 28; (X) data Canhat be accerted within Class -) Setter starts with word " set a followed - ENOY OY by Varable name. GADDALA ASHISH

- following Syntax is highly recommended but Void Set Name (string n) Method to take name & not mandatory. name=h; return it. → setter Will not return anything.

→ it recives data and set to data Member 600 String getName() 1 return name; Variable must accept any input. Void set City (string () { Method to take City and return it . Class Student 11 City = C; Provate intage; String get City () h Private String name; Private String City; return Coty; 1. // Setting age and returning it 11 Sellers and getter of data Members Public Clars Encapt Rublic Void main (String [ ] args) L Student 1 Std = new Student 21(); Void Set Age (inta)? Method to · Std. Set Age (23); -> qiveng age to var age = a; take age int age = std. getAge(); -> throking age. and return ()=) int get Age () { 8.0.P(age) 11 output: 23 return age; Std. Set Name ("ashish"); String name = std. getName (); 0 =) g.o.p(name) std. set City (" ttyd"); string city = Std. get City(); 32 (3) =) GADDALA ASHISH Linkedin

Encapsulation refers to Providing Controlled access to the data Member of the class by (11) Shadowing > It is a Computer programming phenomenon in which a variable declared in one Scope (like avoiding (on Preventing direct access decession block, Method for inner class) has the -> Encapsulation provider data binding. Some name as another declaration of the - O How to achieve Encapsulation in Java? by using Rivate: Members, setters and getters, Enclosing, Scope. when ever there is naming loughist between what there is naming loughist between within letter Ex Clair Student l

Rivate int age; beal variable

Void set Age (int age) à

age = age; instance Variable.

y (Beam: A clas which has all the date members as Rivale is called beam Egi Class students Aivate int age;
Revate Shing name;
Rovate Shing City; Public class Energentation Public static Void main (Strings 2) args) { student Std = new student () Std. set Age (23); Stel. Let Noon ( + asides ) int age = Std. get Age (); Company of the galvery to ? S.o.p(age) - lolp:0 (" by" - 1 th) + 1 - 1 - 12 A Dropall top day GADDALA ASHISH

JUM WILL not allocate any Value. for string it- gives null for out it ques '6' (3ers). (d) Resolving Shadowing problem: this Roblem is revolved by using this? Key word Eg / Class Studenth Rovate intage; Rowate ist string name; Void set Age (int age) this age = age int get Age () { y Return age; Void Set Name (Strong name) d this name = name; int get Name () de int get Name () de int get Name () de