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

Palindrome

Program - 3 (ii) Anagram

Paugram

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 5.0.P ("it is not Palindrome");

(2) Anagram: Two strings are Said to be anagram of they make a Meaningful word by ocarranging on (or) shuffling the letters of the Eg HEART LESTEN CALLENT CODEL String SI = 4 Race"; String S2 = "Carfy" // 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 [ 7 ch2 = 52 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 8.0.P(": His anagram"); y g s.o.p("it's not 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 wanty array Code: - Eg. The QUICK BROWN FOX JUMPS OVER LAZY DOG boolian flag = false;

String S1 = "THE QUECK BROWN POX TUMPS OVER LAZY

DOG 4; 11 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];

// Moving through away ch for (inti=0; ixchilength; i++) { ant index = chrij-65; (T--> 84 (Ascae))

arco. 10,7++ ar[19] = 0 ar[19] + + = 1ar Cindex ]++; y e propos 1 Moving Horough ar for (int i=0; ix ar. length; itt) h if(ar[i] = = 0)of (ar [i] = = 0)h S.o.p (" ofts not Pangram"), flag = fme; if (flag = = false) h | mil list is Pangram");

System.out. Print line "it is Pangram"); 11. . 15 = 13 colo force the oto or ontput: it is Pangram.

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

String nonne;

String Coty; it is a Methodology (on Paradigm to design a frogram using claves 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 (strong [] args) {

Public Static Void Main (strong [] args) {

Public Static Void Main (strong [] 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 ! Examples: a capsule which is Mixed of -> it is not good practice. Othere is no security 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. -> Private, letter, getter, todes togerand Shadowing.

Security for data is provided by the using	3) Gretter and Setter in Java
Rivate Keyword.	
→ data Can't be accessed outside the class. → it is accessed withing the class.	access the data and outside the class
clan directly.	Nancable are Created store data. class- be given by Someone ousite class-
It is accound within	> Variable are creame ousitée class-
) instance (on object Variable.	- the data taken from outside the Clan and
Code = data with Selvinty.	of the to various
Clais Student &	Ocetter to a Method is relieving data from Ocetter to a Method is relieving data from outside and set it to data member. Such outside and set it to data member. Such rethod we called as setter.  Method we called as setter.
Royate intage;	brode and let it to data member.
hivate String name;	method we called as selver.
Rovate String Caty;	rethod we care a data to variable setting value (or) data to value cont
J. Company of the com	> setting value (or) data  Setting value (or) data  Policy value (or) data  Setting value (or) d
Public class freap ( prople ) args) {	1000
Public class Encapt  Public Static Void main (string [] args) {  Public Static Void main (string [] args) {	Setter fets (or updates the value for any (Mutators). it sets the Value for any Variable and in a Class's programs.  It value (accessors),  it returns the Value of data type int,
Student St = new Student(); Student St = new Student();	D Getter - Getter vetams of data type int,
strolent st Strolent st Strolent st Strolent st Ada Canhat be acceved within Class	it returns the bloat Etc.
2 Class	String, double of with word get 7000
ENT OY	string, double of float Etc.  String, double of float Etc.  Thing, double of float with word get y followed  The getter starts with word yet y followed
	by with word
	by Variable name.

- 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 c) { 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 090 = 0; 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 =) S.o. p(name) std. set City (" ttyd"); string city = Std. get City(); 3 2 (3) =)

Encapsulation refers to Roviding 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 decision 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 loughout between instance Variable and local Variable within letter Ex Class student l

Rivate int age; beat variable

Void set Age (int age) à

Qge = age; instance Variable.

y (Beam: A clas which has all the date members as Rivale is called beam Egi Class student h 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 Moore ( + assisted ) int age = Std. get Age (); CI WASHING Hely States (10) S.o.p(age) - lolp:0 (" hot . 1 th) 1 1 - 6 12 he from the day 

JUM WILL not allocate any Value. for string it- gives null for out it ques 'b' (3ens). Desolving Shadowing follow?

This Roblem is revolved by using this'

Keyword. Key word. Eg / Class Studenth Rovate intage; Rinvate ist string name; Void set Age (int age) this age = age int get Age () { y Return age; Void Set Name (Strong name) L this name = name; int get Name () {
Return name;