Introduction to JAVA

Sudhamshu BN
1DS18EC091
6B
Sui

1.)

a) c) package

- b) d) All of the mentioned
- C) c) importably .*
- d) (v) A package can be renamed without venaming the divertory in attrop

 the dasses are stored
- e) b) java
- f) b) append ()
- g) a) length ()
- h) as to exception
- 1) d) String Duffer (int size, String str)
- j) a) reverse ()

SHALLSP IA

2.)

Packages :

Packages in java core way to encapsulate a group of classes, interfaces, enumerations, annotations, and sub packages. Using packages gives advantages like.

- -> Reusability &
- -) Name conflicts
- -> Controlled Access
- -) Para Encapentation
- -) maintainance

There are

9) Dwilt in Packages 97) User Vernad Puckages

Usage/ Creaky a Package For TAUA

For example we can creek a package easily whe,

package My Package 3

To create a class inside package we declare name as hist statuent

ef program.
User Defined Package
Bio-package Phylackage

public dos Compares

nt ni maj

Compare Crotn, rotal ?

ni=n;

 $n_{L}=m_{j}^{2}$

public void german () {

if 6 n1> n2) {

-System. out-printla (Marcinem Value "+11);

```
else &

System.out-println (" Muximum Value" + 12);

2

Public Static void main (String avgs []){

Compare current [] = new compare [3];

current[] = new compare (5, 10);
```

Current[1] = new compare (123, 120); for CENT ?=1;923;9++) {

cunton Lid & ge tomas Us

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maximum value of two runters is 123

* It it is a builtin package , then.

Elipachige DSCE3

smport gava. Ut. Avray List; class suiltin Pachage &

public State void main (String [] args) ?

Array Kist & Integer > my hist = new Array list <> (3);

my List add (8);
my List add (1);
my List add (1);
my List add (1);
sy Jen. out println ("The elements one;"4-my List);
3-3-

Output?

The dements are: (3,2,1]

39)

Special String Operators

* String Literals

* String Concatencetion

to string toncesteration with other Duta Types

At Shing Goversion and to Shing ().

Strong literals: Each sime you exeate a strong literal the DVM chechs the string constant pool first. If the string already exists in the pooler a reference to the pooled Postance 91 rahund. If wing do esent exist, took new SHing Instance is created a placed on the pool

[Ex. String S = "We wome"; Soring t= "Welcome": // will not be created.]

In sit Statement new object is created.

· In 2rd Datment Mwelcome" is already there in pool so Fiscat weaked.

Shing Concatenation.

In Java + operator is used for strong connectionship

By cicample,

[Ext. String age = 19"; String S="He is " + age + "years old"; System. out-println (S)]

out the is 9 years old.

very long strings also string uncareration works. but with java-lang. Strong goo cap (String str)

Shing Concateration with other Data types Other data like int can be ancated ated with string LEXE ENT age = 95 string s= "Acis"+age + " years old"; Sypan rout-priotin (s)s 7 The output is some as before. This is because the not value age 15 automatically wover ted prino 865 string representation within astring object. I operator is used even here. Out while doing operations like String S= "fourg" + 2+2: => output Longe ? 22 X String S= "four 84+(2+2) = output four 54 V Shring correvation and toshrings. value dok to string! methods sive the value of Jives string-Gx: public Static String value of (500 ban 6). value of W public State String rule cof (chare)] to String () is used to converto their data dyres to stry. [Exco general method form

String to String [.]

the priolow can be used to print the thing that it convened by using to string co method-

40)

Default i aported package: Javanlary package

Package import is a feature in java which allows to verse the classes available in a package. Java Avovides Propriet heywood to import another parkage.

Syntax La smorting package or class

- I importall classesta a package.
- -> Nimpost specific class
 impost packagename dassname
- -> //import all classes of subpackage rane
- -> llimport specific clus of a subjackage class name.

puchage impost statuset must come cefter package nome deltaration of before the Start of your duss of the wife impost statuent will be hist statuent

peressing dasses

Example: Built in Pachage

Syntax: import package name luss;

Example: import java. util. Scanners

class My Class &

public state void main (Bring 1) avas) {

Scanner-my Obj = rew Scanner Csystm. In);

33 Syran. Out. priotla ("Enter user name");

Escample: User defined Achages

L roof

L mypach

L mypach

L mypach

padlage mypach;

class mypachage class {

.padlage Mypachage class {

.padlic. Janic void man (Smig E) cness {

.padlic. Janic void man (Smig E) cness {

.system. out-print/n(" Phis is my package");

3

In another program this padage can be imported like,

parlige Javas

mport mypack. * // East importing user defined package

class mypackage Class 2 &

public static void muin (string args []) {

My package class obj = new my package (lay ();

Obj. main ();

3-

pulper: This is My packye.

even user defined puchages can be imported using impart key ward.

7)

Find the leath of string using length in method.

import java ukl-scaner;

public class Java Program

Ę

public Static void main (string args[7)

E string stri

intles;

Scamer scan = new Scanner (System -in)'s

System. out oprint ("Enter Your wane:");

sh = scan eneschlinely;

les = On · length ();

System. out-prioln ("Length of the tothered string is"+ len);

3

3

ENEW Your Name: Sydhanshu BN

Leight of the bothered string is 13

without using lengthoumethod

class Legges of String Main {

public State void main (String orgs[]){

string helloworld = " Hello world ! "

System.out prints ("length: " + get Length of strong with charburay ...

helloworld) 55



Public Static sof get Lexits of String With Char Array (String Str)

£ int length =0;

Chan [I] In char Array = Str. for Char Array ();

Row Char c: Strubour Brray)

£ length ++;

3

yehun length;

J
Hergth: 12