

LABORATORY WORK BOOK

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er.	1	e Course Faculty	G. Bu	charitha Redo	ly	Faculty ID :t Date :の3	oreit logla	024 024
			Ι	MARI	KS AWARDE	D		
S. No.	Exercise Number	EXERCISE NAME	Aim/ Preparation	Algorithm / Procedure		Program Execution	Viva -	
				Performance in the Lab	Calculations and Graphs	Results and Error Analysis	Voce	Total
			. 4	1	4	4.	4	20

			MARKS AWARDED						
S	. Fuerein		Aim/	Algorithm / Procedure 'Performance in the Lab		Source Code Program Execution Calculations Analysis Results and Error Analysis	Program Execution	- VIVa-	Total
			Preparation						
		- period	4 4 .		4 -	4,	4	20	
	1 1-1	Sum of last digits of	4	1.2	2	u	3.	4	19
2	1.2	Is Nan exalt multiple of M2	W	25 : 1	2. 12. 74	harly.	3	4	19
3	1-3	Combrne Strings	4	2	2_	y	3 *	•3	18
4	1-4	Even or odd	L	2	2	u	. 3	3	18
5	1.2	second last digit of	4	2	2_	iq	Y	3	19
6	1.6	Alternate string	· 4	2.	2	u	Y	3	19
7	1-7	Padovan Sequence	40	1, 2	· · · · · · · · · · · · · · · · · · ·	MIE GO	<u>Co</u>	3	19
8	1.8	ceaders in an Analy	W.	1523	12	· Lu	li	4	20
9	1.9	find value of a number	4	2	2	u	244 pt	4	20
10	1-10	Mean of Array using Recursion	4	12	+2115 r	1-14	or May Q	3	19
11	nJ					L. 1		4	İ
12			. Fri	* -	2 6	V -3	10,1	•	

Signature of the Student

Signature of the Faculty

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Am: Robit wants to add the last digits of two given numbers.
for example, If the given numbers are 267 and 154, the output
Should be 11. would a pologram to help stotit, acheric this for
any given two numbers.
Code:
import java. util. Scanner;
class Addlast Digits Function {
    int addlast Digits (int ni, int nz) {
        int laxdigits = Math. abs (n) 1-10;
        int dast digita = Math-ab2(n2)% 10;
        ictum lastdigiti 1 last Digitz,
    public static void main (string arqs[]) {
         Addlast Digits Function obj = new Addlast Digits ();
        Granner scanner = new Scanner (System-in);
        System-out print ("Enter First number: ");
        9nt ni = Scanner. next Int ();
        System-out. porint ("Enter Second number: ");
       Pot n2 = scanner next Int();
       System.out.println(obj.addlast Digits(n1, n2));
       Scanner. close();
```

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2000 10 267 - 154 - 154 - 154 - 154 - 154 154 154 154 154 @ 2017, -184 121 121 1 (5) -261, -1941 (3) 11 Output: 1 11 (D) " - F Franks Sin (D) The part of -Min: North a function that accepts two parameters and find whether the first parameter is an exact multiple of the second parameter. A it is exact the function should prefuse recovered number relse reletan 1. To "Egray river of the gray of the state of Code: public class . Multiple Checker & public state and checkmultiple (Port num), Fort nums) of (num1 == 0 11 num2 == 0) & return 85 miles in the second of the second I trans to a " - party of they be think to may be in the first 34 (num 1% num2 = =0) { return a; I else & return 1; s- Grant La de Fritzen Levert <u>}</u> 新沙里 医艾克斯 150 May 100 200

public void main (string[]args) {
ind numr =10;
int numr = 5;

```
int result = checkMultiple (numi, numi);
       System. out point in ("Poput: num! = "+ num!!", nums).
       System. out - portilin (" output: "+ oresult);
      num1 = -10;
      result = checkMulliple (numi, numi);
     System-out-poriotion ("Input: num! =" + num! +", num2);
     System. out. porinten ("Dutput: "+ occout);
     Duril 20 32 part sit trops is if it is another in man
     result = checkmultiple (num1, num2);
     System-out-parentle ("Input: num! ="+num! +", num2);
     System-out point in ("Output:" + 'siesult);
     num1 =10;
     numa = 3;
     oresult = checkMuttiple(num1, numa)
     System. oct. println ("anpul: num! = " + num! +", num);
     System. out. println ("Output: "+ result);
    29
                                         1 whit
4
Input: onum =10, numa =5
      @ num1 = 10, num 2 = 3
                        ality a stant of representations, a section of
Output: 0 2
        1.
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Aim: Gren & Strings a and b, ordun a new string of the land
 Shord + long + Short, with the shorter string. on the autside
and the longer string in the inside.
 enter of the colonial of continued and a "move" and and and
           issue in how many of first a presencion is
 impart java-util-Scanner;
 public static String Combine Strings (string a , 3tring b) &
 public class StringCombines ?
        String shoulsty = a. lingth () Kb: Lingth() ?a:b;
   String, longStor = a. length () >= b. length() ?a:b;
       oreturn Shootstor + Longston + Shootstr;
                  (Cours / ) Supplied of July
   public static void main (string[] args) &
       Scanner scanner = new scanner (System-in);
       System. out-porant ("Enter the first String: ");
       String a = scanner-nextline();
       System out-point ("Enter the Second Strings");
      String b= scanner-nextline().
      String result = combine Strings (a, b);
      System-out-porntan ("Combined String: "+ descut);
                                1G 1
                             TATELY FF 300 300
      3cannex. Close();
       Enter First String: "hi"
Input: Enter Second String: "hello"
Output: "bihellohi".
```

WATER WATER we then while a function that accepts 6 th put parameters. The West a white bandward was a sollie wor be easily where presenter is a type suring. If the still presidentes cont. -sine the value "even", the function to supposed to return Count of has many of that is presented are even. Corte: public ches Ewnodd & Public static ant Count Numbers (not oums lypestring)? int count so;

Foll I number a frami, huma, numa, numy, mamos; 11 (type-countingoure Care ("even")) &

for Clot wimper: vimperin) &

1 (coumber 1/ 9 = = 0) }

Thend Count 4-15 Obil 1 100 . I de a many s

I cloe & Ctype-equalifignwielase ("weld")) &

for (Int number: numbers) &

. 1. (number % 21 = 0) 8

cocint -1-1 =

35

I else &

Till opening he did person

Je Janel Joseph Wale

Harrison of the property

"collact" of paint to durant perhaps then it

" Tell so " " Language

Throw new Tugal Argument Exception ("The type must tenderen" C'a'600' to see spans of the sample has eng nyit nji Mjilin nji · outur count; rica i filo i filo i a ne fil francisco fil public static void main (string (Jary) } java. ulil. Scanner scanner = new java. ulil. Scanner (system.in) System-out-point ("Enlei (Fost numbers"); int numi = exanner-newthinich; System. out. point ("Enler Second number:");. Pot numa = scanner next Int (); scanner-nextleneco; System. Out-pound ("Entroy reven! of 1000": "); String type = 3cannes. nextline(); Entousure count Numbers (numi, numz, numz, type). Bystem out posintle ("Count : "+ oresult); Scanner. Closechina . 1901 (11) C moderning · (12 ckame) Spiks keralt op no 125 . Input: num 1 = 12; num 2 = 17 (+ contesting the state supplied num3 = 19. () (Parent 16/2 - 2) 11. Intrope des Duro4 =14 num5=115. type = "odd"

7/16

Aim: walk a junction that orduins the second last agit q the given number. second last digit is being referred to digit in tens place in given number. Code: impout java util . scanner; public class Digit Entractor ? public static int get second last Digit (int number) & it (Math-abs (number) (10) & thrownew Illegal Argument Exception ("Two cligits."); "Hadron brook will they Int last Two Digits = Math-abs (number) 1.100; int SecondLast Digit = last wa Digits /10; return second last orget in its " trained / 1000 public Static wad main (String[] args) of Scanner scanner & new Scanner (system-an); System-out print ("Enter a number: "); Pot number = scanner. nextInt(): try& Port viesult = get second last Digit (number). System. out-println ("Second last Digit: " + result); 3 catch (Illegal-Argument Exception e) 2. System. out. printin (e.get Message ()); & scanner. closecs;

```
Popul: 197 per mand the popular come a property
              auput: 7
              Tim: Gruen two strings a and b, potent a new string which
   1.6
               is made of the following combation . first character of a then,
              first character so b and so on.
              code: There is a street to an interest the state of the street of the st
              imposit java- util-scannes;
              public class stringcombines 1 &
                      public static string combine Strings (String a, String b) &
                                String Builder Diesult = new String Builder();
                                Pot lenA = a. lingth ();
                                and Lens = b. Lingthes;
                                for (Port i= 0, 12 minlength; ?++) &1 . a. ...
            ercomun joiesul append (a. charat (1));
                                                                                                                           nowher ids mile
promotion of bottoreweb. append, Cb-charge CTD;
                                                            to dealth anchilect lians van de laan-
                              it (lunA > len B) }
                                       oresult. append (a-substring (len B));
                                                                                                       CONTRACT HELP ON F THEY , I
                             Felse &
                                       oresult append Cb. substiling (len AD);
            ( o with some 2 newshall almost of the pitches count
                                oreturn oresult. to String ();
                                                                                  shothy commonly
                         Public static void main (string[] args) &
```

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Boanner scanner : new Scanner (System in);
     System-cut print ("Enter the first String: ");
sum a a sanner-rextime();
 system aut paint ("Enter the second string: ");
      string b= scanner-rendline();
     string result a combine Strings (a, b);
     System- out-printin ("Combined String:" + swellt);
                                 AL PLOVELLANDER LANDS
     ramer closes;
                          The states in the little of the state of
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The state of the parties of the parties of the state of 7 loput: Enter First string: Hello Enter Second Strang: Would

Ordput: Himeobillod

Alm: The padovan sequence is a sequence of numbers that are named after Richard padovan, who attributed its discovery to dutch architect tlans van der laan.

(8 m) (11 m) 11 (18)

Code:

Secoult reprod to and I read to up 1 15 import java util Scanner;

public class Padovan Bequence {

Public Static Int() generale Padovan Sequence (Int n) { of (nc =0) g. Thomas sieturn new Int[0];

Int[] sequence = new int[n];

AV LUPTIBELLE LA LA COLLEGE CO defilience from will all with the first (mas as dequined (2) all Mar Challes 3 Teng 9 (1) 4 Sequence [1] a sequence [9 = 5] & sequence [9 = 4] preture Beautions public static void motingslipped Alig scanner ecanner a rela scanner (support Byttern out print (" worker number 9 1001 Roll Wit Scapner - new Crotco; operation PALL I sequence & sgenerale padovan sequencens; system out posint in (" Pactorian, Segrence for (Pint num : sequence) { System. out - portric num + 1" . ") 6 (.... (Mysta contra a) businesson System. out. polintanco approse 111: 1 2013 (1) Scanner Close (). Clipin & Hosper Childrens.

 1.8 Afm: Green an anay are of n positive integers, your task is to find all the maders in the array. An eliment of the maximum element on its orightside. The orightmost is always a leader.

, Sjir ngi Baggara 🤏 sa 🚓 Katayayaya,

impood, java - util - Arraylist;

import java. util. collections;

impout java. util. uist;

Empart Java. Will Scanner; Vient bion sites medicing

public Arrayleader & into 2007 = 12 mars 10 miles

Public Static Mist Minteger> findleaders (Int() 210) \$ List (Integer > Leadous = new Anaylist 47();

it carr = null arrillingth = = 0) &

return leaders of him plus milys

in fint run : segueral int man from Right = at (Carr , length - U;

leaders - add (max from Right);

tor (int i= air. length -2; 77=9; 17 --) 5.

if (aro[1] >=max From Right) grannes

leaden-add (arr(i));

martiomRight = arreliance wint : tugo!

Distribute Sections of to the test of the Office of the section of

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collections: oneverse (leaders);
    ordin leddous
 public static void main (string args()) of
     Scanner scanner = new Scanner (System fin);
     System-out-print ("Enter no- of elements in arrays");
     Int n = scanner next 2nt();
     Phill are = new Ent[n];
     System-out-print("Enter elements of array:");
     for (Port 1=0; 12n; 1++) &
        arr[i] = Scanner-next Pot();
     List 2 Integer Leaders: = findleaders (arr);
     system. out. prentln ("Leaders on the array; ");
     tor (Port leader: leaders) &
        System. out - pount (leader + ");
     System. out. println ();
     scanner. close ():
                 PROPERTY PROPERTY.
          Christian Comment of the forms had
input: n=6, arr(]=(16,17,4,3,5,2)
        Lessie: This day of the wife the state of the
```

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-tind-the number obtained when the number, 75 idised to
Mam: GRien a number 'N' and its sievesuse in
power of the own sieverse.
                     2197 - M. J. W. D. Karker
Empart java. util- exanner;
public class paver of Reverse &
   public Static înt sueversie Nimber (înt number) &
      Port oceversed = 0;
     while (number = 0) & "Therey have about
        int digit = number ( 10; ) = 1 to ) is
       reversed : reversed * 10+ digit;
  : Sichum sieversed scrabbas seguital s 12/1
  2) public static long payor of Reverse (int num, intrev) {
     return (long) Mathe pow (number, reverse);
public Static void main (String digs ()) {
   Scanner scanner = new Scanner (systemin):
   System. out. print ("Enter a number: ");
  Port number = scanner, nentanter:
  Int reverse = reverse Number (number);
  long result = power of Reverse (num, rev));
 Bystem- out- println (number 1" raised to power"
                           Dreverse + " ?s: " + Dresult);
```

```
scannes-close ();
           N=57, R=75
    input:
   Output: 262642770.
1.10 Am: Find the mean of elements of array.
   code:
   imposit java util · Scanner;
  public class Mean Calculator &
        public Static clauble catculatemean (Int () arr) {
           it (arr. length ==0) &
              orduno;
          Z
                                                 I WILLIAM
           int sum = 0
          for (int num: arr) &
              sum+= num;
           return (double) Sum / arr. length:
     public static void marn (String args[]) &
          Scanner scanner = new Scanner (Systemin):
          System. out-prant ("Enter no. g elements in array:");
```

```
ant n= scanner next and );
    int() are = new int(n);
    System. oud. partin(" Enter the cluments of stray: ");
    tor (int 1=0; 12n; 7+4) {
       an(i) = exanne-new 2rtO;
                                           I taryladi
    double mean = calculati Mean (arr):
    System-out-print+ ("the mean is: 1/-2+1/. ", mean).
    Scanner-close();
Input: 12345
Output: 3-0
```

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