ASSIGNIMENIT-02.

COURSE CODE: CSA0914.

COURSE NAME: programming

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Submitted to:

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Am: To Write a java program to reverse a number * Take an integer lipst from the user. * Enifiable a variable reversed to o. * While the input is greater than zero * The the last digit of the input number by finding the remainder of the number when divided by 10. * Add the last dight to the reversed after shifting His current value to the left by one digit to print the reversed number. public class reverse number of public Static void main (Stringer) angs)/ int num = 1134; ind reversed = 0, 3 (comun) will int last digit = num./10; reversed = reversed * 10+ tombeligity mm/=10) System. out - prinder ["reversed number: 4 reversed); Input: autput: reversed numbers Enter a number: 4321

1234

Aim: To write a java program to Check Armstrong number or not using while Loop. pseudocade! at Take on integer input from the user. * calculate the number of digits in the input number A Enitialise a variable Sum' to 0. the for each digit in the input number. - Raise the digit to the power of the number of digeta -> Add the result to the sum variable. 4 Check if the Sum in Equal to original number as print the result Program: public class Armstrong number { public Static void main (String (2 aign) (int num = 1533 int rum digit = count digita (rum); ind Sum so; int temp = rum , rylyr (temb so) {. int oligit = temp 1/. 10; Sum + = (int) math. pow (digit, numdigita); temp/=10) if (Sum = = num) System. out. println ("Armstrong number:");

euc System. out-printle ("not an amostrong number:"); public Static prit coud digita (int num) int count : 0; Mily (mm 20) of In put: mm = 10) Enter a number: 153 Count ++) autput: Armstrong number. return count; Aim: To white a gara program to calculate the god of two numbers. Seubocode: the Take two integers from the user no aid no * It no 100 return no as the god. it otherwise calculate the remainder of no divided by ne and Store it in a temporary variables .temp. & Replace no with he and no with temp. & I final values & n, is the god.

```
public class ged L
    public Static void main (Stringe) args) (
      int n1=12, n2 = 15)
     ind god = calculate god (nime)
     System. and prindles (the god of "th, of "and" + no +
                       'You +ged);
    3
   public static int calculate god (int n, int ne) i.
    While (no 70) [
                             Input:
     int temp = n. 1. ne;
                          Enter Arot number: 12
       ni=n2)
                             Entersecond number: 15
     1 = temp;
                            output:
                             The ged of 12 and 15 is 3.
     return nin
Aim;-
To minte a java program to marge tulo sorted arrays;
* Initialize the variables.
A Create a new array issued that its Equal to the
   Size of both the arrays.
& Initialize three violies 1 to 0,5 to 0 kto 0
```

* While i in less than arr, j in tess than arm

```
* print the result.
program:
public class magasanted analys of
    public Static void main (String Darge) (
     int an () = { 1, 3, 5, 7}
     int an2 () = {2, 14, 4,8}
      int result ( = merge sorted (may) ( arr, arre);
    System. Out-printer ("merged array!" + Java. Util. to othing
    5
                              (result);
   public Static and () merged-sorted-array (int arrae), intarro)
   int mout () : new Ind Carris length + arm. Length);
   While (i < ani. Length se j < arrz. length) (
      if (am( D s anz (J)) (
       (C++1) mp = [++1] tucar
      epe (
        Mult (k++): anz(j++);
    While (1 cam. Length) (
          (C++1) = con1(1++);
   nhih ( ) <anz, length ) {
     Mul (k++)= anz (j++).
```

outputs [1,2,3,4,5,6,7,8] 1 Aim: To Write agard program to court the frequency of characters in the string. pseubook: * Take a string imput as input * Create a hashmap Char frequency to Store the frequency of Each Character. I Enstiauze an Empty hashmap ! that frequency! * Iterate through cach character (c' in the input - It (is already a key (char frequency) increment -> otherwise add 'c' as a new key in charfrequency with a ratur by 1 x Return the 'Charfrequency hashmap. program:import java · wil · Harhmaps import fara. util. maps public class character trequery (public Static void main (Stringer) args) (String input = "hours inbortd"; mayor character, integer > Chartrequiry