1. Aim:

To Write Tara program for reversing a number

Pseudo Code:

Step 1: initialize the variables and get the number from the user

Step 2: using the while loop perform: "get the last digit from the number

- add it with Sum and multiply with 10

· remove the Past digit from the number

Step 3: display the result

Program:

import java util Scannes; poublic class reverse-number f public Static void main (String[] args) s

Scannes input = new input (Scannes (System-in); System-out-print ("enter the number: "); int num = Scanner. next Int(); int rev=0, temp; while (num >0) { temp = num = 1.103

rev = rev*10+temp; num = num/10;

System-out. printin (reversed number = +red):

Sample output:

enter the number: 2435

reversed number: 5342

Aim:

To write Java program for Checking weather a number is Amstrong or not

Pseudo Code:

Step 1: initialize the variables and get the input number from the user

Step 2: Using while loop get the last chigit from the number.

Step 3: find the Cube and add it with Sum Variable. Then remove the last digit. Continue until the procumber is greater than Zero

step4: If Sum is equal to the actual number then it is amstrong number. Obsert is not a

Amstong number

eg: 153= 13+53+33

```
Program:
  import java-util. Scanner;
    public Class amstrong &
       Public Static void main (string[] args) {
           System.out.print ("enter the number:");
           int n = input·nextInt();
           int temp = n, b, sum=0;
          While (n >0) {
           5= n%10;
           Sum + = 6 + 6 + 6;
           n= n/10;
          if (Sum = = temp)
          System-out-print ("Amstrong");
         else
          System · out · print ("Not Amstrong");
Sample output:
enter the number: 153
Amstrong
```

3. Aim:

To write Tava program for finding the gcd of two numbers

Pseudo Coge:

Step 1: For initialize the variables, and get the numbers a and be from the user

Step 2: Using the for loop find a number which is less than a and b and also the number Should divisible by both a and b

Step 3: If you get multiple numbers then Choose the largest one

Program:

impost java·util· Scanner;

public class gcd {

public Static void main(string[] args) {

Scanner input = new Scanner(System·in);

System·out·print("enter two numbers: ");

int a = input·nextInt();

int b = input·nextInt();

int i, gcd = 1; for(i=1;i2=0.88 i2=b;i++){

if (a·l·i=0.88 b·l·i=0)

gcd = i;

y

System.out.print ("gcd = "+ga);

y

Sample Output:

enter two numbers: 6 90 gcd=6

4. Aim:

To write Tava program for merging two Sorted array arrays into a Single Sorted array

Pseudo Code:

Step 1: initialize the variables and get the input strings from the user

Step 2: merge the both Sig Strings and then Sort the array and Store it in new array

Step3: Convert the array into String and display the Single merged array

```
Program:
import java-util-Scanner;
public class merge {
   public Static void main (string[] args) {
       int []a= {1,4,7,9};
       int [] 6= { 3, 6, 11 3;
       int [] C= new int [a-length + 6-length];
       for (int i = 0; ica-length; i++)
            c[i]=a[i]i
        for (i= 0; iLB-length; i++)
             C[:+ a.length] = b[i];
        Arrays. Sort ( );
       System. out. print (Arrays. to String(c));
  y
 Sample output:
 Sorted array: [1,3,4,6,7,9,17]
```

```
Aim:
```

To write Tava Program for find the frequency of each char in a String

Pseudo Code:

Step 1: initialize the variables and get the input string from the user

Step 2: An array of Size 256 is used to Store the frequency of each ASCII character

Step 3: Iterate the loop over each char of the String and update the frequency Count

Step 3: if frequency is greater than Zero then print the

Program:

public class frequency {

public static void main (string[] args) {

String input = "hello";

int [] frequency = new int[256];

for (int i=0; ic input-length; i++) {

Char ch = input- CharAt(i);

frequency[ch]++;

y

for (i=0; ic frequency-fength; i++) {

if (frequency [i] 70) {

```
System.out. println ((char)i + ": "+ frequency[i]);

y

y

Sample out put:

e: 1
```

h: 1 1:2 0:1