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Java Programming.

1. Aim: To write java program for reversing a number.

Pseudocode:

→ Initalize the variables and get the number from the user.

→ using the whik loop perform, get the last digit from the number.

→ Display the result

Program:

```
Import java.util.Scanner.
Public class Reverse.number{
Public static void main (String [] args){
   system.out.days ("enter The number");
   Int  num = scanner.next Int();
      Int rev = 0, temp;
   while (num >0){
   temp = num * 10;
   rev = rev *10 + temp;
    num = num /10;
  }
}.
```

Sample Output:

Enter the number = 2435

Reversed number = 5342.

2. Aim: To write java program for checking weather a number is armstrong or not

Pseudocode:

→ Initialize the variables and get the input number from the user

→ using while loop get the last digit from the number

→ digit count the no of the number is < zero.

Program:

```
import java.util.Scanner;
public class armstrong {
Public static void main (String [] args) {
System.out.print ("enter the number");
  int temp = n; b, sum = 0;
      while (n>0) {
        b = n%10;
      sum += b*b*b;
        n = n/10;
      if (sum == temp) {
    System.out.print ("Armstrong");
    }
    else
    System.out.Print ("not armstrong");
}
}
```

Sample output:

Enter the number: 153.

Armstrong

3. Aim: To write java program for finding gcd of two numbers.

Pseudocode:

→ Initialize the variables and get the number a and b from the user.

→ Using the for loop find a number which is less than a and b.

→ Also the no. should be divisible by both.

→ If you get multiple number then choose the largest one.

Program:

```
import java.util.Scanner;
public class gcd {
  public static void main (String [] args) {
Scanner input = new Scanner (System.in) {
System.out.print ("enter 2 numbers :){
    int a = input.nextInt();
    int b = input.nextInt();
    int i, gcd=1;
    {gcd=i;
    }
}
System.out.println ("gcd" = "+gcd);
}
}
```

Sample o/p:

Enter two numbers = 690

gcd = 6

4. Aim: To write java program for merg kind two sorted arrays into a single.

Pseudocode:-

→ initalize the variables & get the input string from the user.

-) merge the both.

-) convert the array into string & 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 [] b = {3, 6, 11}
  int [] c = new int [] a: (length.length);
  for (int i=0; i<ar length; i++)
      c[i] = a[i];
  for (i=0; i<b.length; i++)
System.out.println (Arrays.to string (c)).
 }
}
```

Sample o/p:

Sorted array: [1, 3, 4, 6, 7, 9, 11].

Aim :- To write java program for find the freque ncy of each char in a string

Pseudo code :-

→) Initialize the variables & get the input string from user.

→) An array of size 256 is used to store the frequency.

→) Iteration the loop over each char of the string & update the frequency count

Program :-

```
Public class Frequency {
public static void main (String [] args) {
String input : " hello " )
 int [] frequency = new. input [256]
for (int i=0 ; i < input length ; i++ ] {
      char ch = input char At [i] ;
      frequency [ch] ++;
  }
for (i=0 ; i ≤ frequency length ; i++ );
System.out println (char) ;
  }
 }
}
```

Sample o/p :-