Assignment-2

Name: G. Sahitya Reg No: 192211567. Subject: CSAO1914 Java

Program 1: Reverse a number Aim: To write a Java program for Reverse a number. A) Program : Public class Reverse Number ? Public Static Void main (String [] augs) { 9nt number = 12345, reversed =0; while (number 1 =0) { reversed = reversed 10 + number + 10; number/=10System out. pmtln (reversed); Output: Reversed number = 54321 Result: The program is successful. Check Armstrong number. Aim: To write a Java program to check Armstrong a . number import java-util·scanner; Program: Public class ArmstrongChecker &

public Static void main (String [] corps) {

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Scanner Sc = new Scanner (System in);

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int num = Sc next Int(), sum = 0, temp=num,

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digits: String value of (num) · fength())
  while (temp>0) {
     sum + = Math-pow (temp/10, dryits);
      temp /= 10)
     System.out. println (rum == sum) "Armerong":
                                  "Not Armstrong");
output: Enter a number = 153
      It is an Armstrong number.
Result: Program is Successful.
Calculate the GCD of two numbers.
Aim: To calculate the GCD of two numbers using Java
Program:
  Public class GUD ?
      Public Static void main (string[] args) {
         mt a=48, b=18;
         System.out.prmth(gcd(a,b));
       Static int god (int a, int 15) {
            return b==0 ?a : gcd(b, a% b);
```

ulput Result: program is Successful. Merge Two Sorted Arrays. 4-Aim: To Merge two Sorted Arrays using Java A) Pragram : Public class Merge Sorted Arrays & Public Static mt[] merge(int[] aur1, 1nt[] arra).} mt [] marged = new mt [arr1 : length + arro - length]; mt r=0, j=0, k=0) while (i-carri-length & & i-carra, fength) & merged [k++] = (arr1[i]~arr2[i]) ?avu1[i++] arrallittjj cobile (ixarr]. length) merged [k++] = arr][i++]; while (jearra. fength) merged [ktt] = arra[jtt]; return merged; Result. Program is Sullessful. Count the Frequency of Characters in a String. Aim: 70 count the frequency of characters in a String Program: emport java util HashMap; Public class Charfrequency & Public Static Void man (String [] augs) {

String str = "hello world"; Hash Map < character, Integer > freq map = new Hash Map <> (); For (char C: Str. to Charl Anay ()) { Freq Map-put (c, freq Map-getor Default (c,0)+1); 3 System out print (n (fre of Map);

Result : The program is sullessful