Assignment-02 Java P.Rajesh 192211033

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

Pseudocode:-

=> Initialize the variables and get the number from the user.
=> Using the while loop perform.
=> Get the largest digit from the number.
=> Add it with sum & multiply with it.
=> Display the result.

Program:-

```
import java.util.Scanner;
public class reverse.number{
public static void main(String[]args){
Scanner input = new Scanner(System.in);
System.out.print("enter the number:");
int num=scanner.nextInt();
int rev =0, temp;
while (num>0) {
temp = num%10;
rev = rev*10+temp;
num=num/10;
}
}
```

Sample output:-

enter the number : 2436

reversed number : 5342

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reversed number : 5342

(2) Aim:- To write Java program for checking a number is armstrong or not.

Pseudo code:-

=> Initialize the variables and get the input number

=> Using while loop get last digit from the number

=> Find the cuber and add it with sum variable then remove it.

=> eg:- $153 = 1^3 + 5^3 + 3^3$

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){
  b = n%10;
Sum += b* b* b;
   n = n/10; }
if (Sum == temp){
System.out.print ("Amstrong")
}
}
```

Sample output:-

enter the number = 153

Amstrong.

③ Aim:- To write Java program for graphy the gcd of two number.

Pseudo code:-

⇒ Initialize the varibles and get the numbers a & b from the user.

⇒ Using the for loop find a number which is less than a & b and also the number.

⇒ If you get multiple numbers 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) }
int a = input. next int ( );
int b = input . next int ( );
int i , gcd = 1 ;
for (i=1) ; i <= a <pic b; i++)
{
if (a % i == & & b % i == 0)
{
gcd = i;
}
}
```

Sample output:-

Enter two numbers : 6 90

gcd = 6

⑤ Aim:- To write Java program for find the frequency of each char in a string.

Pseudocode:-

=> Initialize the variables and get the input string from user.

=> An array of size 256 is used to store the frequency of each ASSCI character.

=) Operate the loop over each char of the string.

Program:-

```
Public class freqency{
public static void main (string [] args ){
String input = "hello";
int []freqency =new.int [256];
for (int i=0; i<input.length; i++){
char ch = input. charAt(i);
    freqency [ch]++;
}
for (i=0; i<freqency.length;i++){
if (frequency [i] >0) {

}
}
}
```

Sample output:-

e = 2

h=2

l=2

o =1