CSA0993 - Programming in JAVA for Application.

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1. Write a program to reverse a word using loop?

```
import java.util.Scanner;
public class ReverseWord {
  public static void main(String[] args) {
    Scanner input = new Scanner(System.in);
    System.out.print("Enter a word to reverse:");
    String name = input.nextLine();
    String reversed = "";
    for (int i = name.length()-1; i>=0; i--){
      reversed = reversed + name.charAt(i);
    }
    System.out.println("Reversed Word :" + reversed);
  }
}
```

2. Write a program to check the entered user name is valid or not. Get both the inputs from the user.

```
import java.util.Scanner;
public class UserNameValidator {
  public static void main(String[] args) {
    Scanner input = new Scanner(System.in);
    System.out.println("Enter the user name:");
    String userName1 = input.nextLine();
    System.out.println("Reenter the user name:");
    String userName2 = input.nextLine();
```

```
    if(userName1.equals(userName2)){
      System.out.println("User name is Invalid");
    }
  }
}
```

3. Write a program to reverse a number using loop?

```
import java.util.Scanner;
public class ReverseNumber{
  public static void main(String[]args){
    Scanner input = new Scanner(System.in);
    System.out.print("Enter a number to reverse:");
    int n = input.nextInt();
    int rev = 0;
    while(n!=0){
      int rem = n%10;
      rev = rev*10+rem;
      n = n/10;
    }
    System.out.println("Reverse Number:"+rev);
  }
}
```

4. Write a program to find whether the person is eligible for vote or not.

```
import java.util.Scanner;
public class VoterEligibility {
  public static void main(String[] args) {
    Scanner input = new Scanner (System.in);
    System.out.print("Enter your age:");
    int age = input.nextInt();
    if (age > 18 ){
      System.out.print(" you are eligible to vote.");
    } else if(age <=0){
      System.out.print ("Enter the age correctly.");
    }else{
      System.out.print(" you are allowed to vote after"+(18-
age)+"years.");
    }
  }
}
```

5. Find the LCM and GCD of n numbers

```
import.java.util.Scanner;
public class Main{
  public static Void main(String[]args){
    Scanner input =new Scanner(System.in);
    System.out.print ("Enter the numbers:");
    for (int i=0; i<n; i++){
      numbers[i]=input.nextIn();
  }
```

```
int lcm = numbers[0];
int gcd = numbers[0];
for (int i = 1; i < n; i++) {
  lcm = findLCM(lcm, numbers[i]);
  gcd = findGCD(gcd, numbers[i]);
}
System.out.println("LCM of the numbers: " + lcm);
System.out.println("GCD of the numbers: " + gcd);
}
public static int findLCM(int a, int b){
  return a*b / findGCD(a, b);
}
public static int findGCD(int a, int b) {
  if(b==0) {
    return a;
  }
  return findGCD(b, a%b);
}
}
```

6. Write a program to print Right Triangle star pattern

```
import java.util.Scanner;
public class GeeksforGeeks {
  public static void starRightTriangle(int n)
  {
    int a, b;
    for(a=0; a<n; a++){
      for(b=0; b<=a; b++){
        System.out.print("*");
      }
      System.out.println();
    }
  }
```

```
public static void main (String args[])
{
  int k = 5;
  StarRightTriangle(k);
 }
}
```

7. Write a program to print the below pattern?

```
import java.util.Scanner;
class GFG{
 public static void printPascal(int n)
 {
  for(int i=1; i<=n; i++){
  for(int j=0; j<=n-i; j++){
    System.out.print(" ");
  }
  int x=1;
  for(int k=1; k<=i; k++){
    System.out.print(x+" ");
    x=x*(i-k)/k;
  }
  System.out.println();
 }
}
public static void main (String[] args)
{
 int n=4;
 printPascal(n);
}
}
```

8. Simple Integers:

```
Public class SI {
  public static void main (String[], args ){
  Scanner input = new scanner (system.in);
  int pri = 200000;
  int yr = 3;
  char arg = input.next().charAt(0);
  double interest = 0.0;
  if(age = "y"){
    intercase = (pri* yr* 0.12)(100;
    System.out.println(Interest);
  }
  else{
    interest = (Pri* yr* 0.1)/100;
    System.out.println(interest);
  }
```

9. Fibonacci Sum:

```
Public class Fibonacci sum{
 Public static void main (String[]. args ){
  int n = input.nextline();
  Int a1 = 0, a2 = 1. a 3}}
  int a[] = new int[50];
  for (int i = 0., i< 0; i++){
    a[i] = a1;
    System.out.Print(a[i]f" ");
    a3 = a1 + a2;
    a1 = a2;
    a2 = a3;
```

```
}
int sum = 0
for(int i=0; i<n* 2; i= i+ 2)
{
  sum =asum+a[i];
}
system.out.println("sum=" +sum);
}
}
```

10. Number:

```
Public class number{
  Public (Static void main (string [], args,){
  int m=50, N=100, K=7;
  for (int i=m ; i<=n; i=i+k+1){
     System.out.println(i+" ");
  }
 }
}
```