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COURSE CODE : C S A 099 3

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1. Reverse A Word

```
import java.util.Scanner;
```

```
public class Reverse {  
    public static void main(String[] args)
```

```
    {  
        Scanner input = new
```

```
        Scanner(System.in);
```

```
        String name = input.nextLine();
```

```
        String reversed = "";
```

```
        int len = name.length();
```

```
        for (int i = len - 1; i >= 0;
```

```
            i--)
```

```
            reversed = reversed +  
                name.charAt(i);
```

```
    }
```

```
    System.out.println(reversed);
```

```
}
```

```
}
```

~~Imp~~ 2: Valid email or Not

Import java.util.Scanner;

Public Class Valid {

public static void main(  
String[] args) {

Scanner input = new  
Scanner(System.in);

String s1 = input.nextLine();  
String s2 = input.nextLine();

if (s1 == s2) {  
system.out.println("Valid")

else  
system.out.println("Invalid")

2

### 3.) Reverse Number

Class

```
Public class reverse {  
    public void main (String[] args) {  
        Scanner input = new  
        Scanner (System.in);  
        System.out.println("Enter a number to rev.");  
        int n = input.nextInt();  
        int rev = 0;  
        while (n != 0) {  
            int rem = n % 10;  
            rev = rev * 10 + rem;  
            n = n / 10;  
        }  
        System.out.println("Reversed num: ");  
        System.out.println("Reversed Number: " +  
            reversed rev);  
        Scanner.close();  
    }  
}
```

y

y



4.) Voting System

```
import java.util.Scanner;
```

```
public class Stuff {  
    public static void main(scan String[] args) {
```

```
        Scanner input = new  
        Scanner(System.in);  
        int age = input.nextInt();
```

```
        if (age > 18)  
            System.out.print("You are eligible  
            to vote");
```

```
        else if (age == 18)  
            System.out.print("You are  
            eligible to vote");
```

```
        else  
            System.out.print("You are allowed  
            to vote" + (18 - age) +  
            " years of age");
```

}

}

6.) Right Triangle Star Pattern.

```
import java.util.Scanner;
```

```
public class RightTriangleStarPattern {  
    public static void main (String[] args) {
```

```
        Scanner input = new  
        Scanner(System.in);
```

```
        int n = input.nextInt();
```

```
        for (int i = 1; i <= n; i++) {
```

```
            for (int j = 1; j <= i; j++) {
```

```
                System.out.print("* ");  
            }
```

```
            System.out.println();  
        }
```

y



1.) ~~Floyd's Triangle~~  
1.8.) Pascal's Triangle :-

```
import java.util.Scanner;
```

```
public class PascalTriangle {  
    public static void main(String[] args) {
```

```
        Scanner input = new  
        Scanner(System.in);
```

```
        int n = input.nextInt();
```

```
        for (int i = 0; i < n; i++) {
```

```
            for (int s = 0; s < n - i - 1; s++) {
```

```
                System.out.print(" ");
```

```
            }
```

```
            int a = 1;
```

```
            for (int j = 0; j <= i; j++) {
```

```
                System.out.print(a + " ");
```

```
                a = a * (i - j) / (j + 1);
```

```
            }
```

```
            System.out.println();
```

```
        }
```

```
        input.close();
```

```
    }
```

```
}
```

## Simple Interest:-

```
import java.util.Scanner;  
  
public class SimpleInterest {  
    public static void main(String[] args)  
        (double principal, int years, boolean  
         isSeniorCitizen) {  
        double rate = 0.1; // 10%  
        return principal * rate * years;  
    }  
}
```

```
public static void main(String[] args) {  
    Scanner input = new  
        Scanner(System.in);  
    System.out.print("Enter the principal  
        amount: ");  
    double principal = input.nextDouble();  
    System.out.print("Enter the No. of  
        years: ");  
    int years = input.nextInt();  
}
```

```
System.out.print("Is Customer Senior  
        Citizen (y/n): ");  
boolean isSeniorCitizen = input.next().  
    equalsIgnoreCase("y");  
double interest = calculateInterest(principal, years,  
        isSeniorCitizen);
```

```
System.out.println("Interest: " + interest);  
input.close();
```



## 9.) Even Sum of Fibonacci Series

```
import java.util.Scanner;
```

```
public class Even EvenFibonacci {  
    public void static void main (String[]  
                                args) {
```

```
        Scanner input = new  
        Scanner(System.in);
```

```
        int n = input.nextInt();
```

```
        int a1 = 0, a2 = 1, sum = 0;
```

```
        for (int i = 0; i <= n; i++) {
```

```
            if (i % 2 == 0)
```

```
                sum += a1;
```

```
            int a3 = a1 + a2;
```

```
            a1 = a2;
```

```
            a2 = a3;
```

```
        }
```

```
        System.out.println("Sum: " + sum);
```

```
        input.close();
```

```
}
```

```
}
```