Day-2

19/08/2025

```
import java.util.Scanner;
class Insurance {
public static void main(String[] args) {
Scanner in = new Scanner(System.in);
System.out.println("Enter the Marital status (M/U):");
char Marital = in.next().charAt(0);

if (Marital == 'u' || Marital == 'U') {
System.out.println("Enter the Gender (M/F):");
char Gender = in.next().charAt(0);
System.out.println("Enter the Age:");
int Age = in.nextInt();

if ((Gender == 'M' || Gender == 'm') && Age >= 30) {
System.out.println("You are Eligible for Insurance");
} else if ((Gender == 'F' || Gender == 'f') && Age >= 25) {
System.out.println("You are Eligible for Insurance");
} else {
System.out.println("You are not Eligible for insurance");
}
} else if (Marital == 'm' || Marital == 'M') {
System.out.println("You are Eligible for Insurance");
} else {
System.out.println("Invalid Input");
}

import java.util.Scanner;
class NumberRepetition {
public static void main(String[] args) {
int i, j, rows;
System.out.println("Enter the number of rows : ");
rows = in.nextInt();

for (i = 0; i <= rows; i++) {
for (j = 0; j <= i; j++) {
System.out.print(i);
}
System.out.println("");
}
}
}
Sample Input/Output:
Enter the number of rows :
5
0
11
222
3333
44444
555555


import java.util.Scanner;
class RightAlignedTriangle {
```

```
public static void main(String[] args) {
int i, j, n;
System.out.println("Enter the number of rows : ");
Scanner in = new Scanner(System.in);
n = in.nextInt();

for (i = 0; i <= n; i++) {
for (j = 0; j <= n; j++) {
if ((i + j) < n)
System.out.print(" ");
else
System.out.print("*");
}
System.out.println("");
}
}
}
```

```
Enter the number of rows :
5
*
**
***
****
*****
******
```

```
import java.util.Scanner;
class SequentialNumbers {
public static void main(String[] args) {
int rows, i, j;
System.out.println("Enter the number of rows : ");
Scanner in = new Scanner(System.in);
rows = in.nextInt();

for (i = 1; i <= rows; i++) {
for (j = 1; j <= i; j++) {
System.out.print(j);
}
System.out.println("");
}
}
}
```

Sample Input/Output:

```
Enter the number of rows :
5
1
12
123
1234
12345
```

```
class ContinuousNumbers {
public static void main(String[] args) {
int number = 1, i, j;

for (i = 1; i <= 5; i++) {
for (j = 1; j <= i; j++) {
System.out.print(" " + number);
number++;
```

```
}
System.out.println("");
}
}
}
```
Output:
```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```
```
import java.util.Scanner;
class CenteredTriangle {
public static void main(String[] args) {
System.out.println("Enter the number of rows : ");
Scanner in = new Scanner(System.in);
int n = in.nextInt();

for (int i = 1; i <= n; i++) {
// Print leading spaces for centering
for (int k = 1; k <= (n - i); k++) {
System.out.print(" ");
}
// Print numbers
for (j = 1; j <= i; j++) {
System.out.print(" " + i);
}
System.out.println("");
}
}
}
```
Sample Input/Output:
```
Enter the number of rows :
5
1
2 2
3 3 3
4 4 4 4
```