## DAY- 4 8/5/25

## **Switch Case:**

- cases have to be the same type as expressions, must be a constant or litera
- duplicate case values are not allowed
- break is use to terminate the sequence
- if break is not used, it will continue to next case
- default will execute when none of the above does
- if default is not at the end, put break after it

```
syntax:
switch(expression){
  case:
     Statement;
     break;
  default:
     Statement;
}
example (Print 7 days):
class DayWeek {
  public static void main(String[] args) {
     Scanner scanner = new Scanner(System.in);
     System.out.println("Enter the number (1 to 7): ");
     int day=scanner.nextInt();
     switch(day){
       case 1:
          System.out.println("Monday");
          break;
       case 2:
          System.out.println("Tuesday");
          break;
       case 3:
          System.out.println("Wednesday");
          break;
       case 4:
          System.out.println("Thursday");
```

```
break;
       case 5:
          System.out.println("Friday");
       case 6:
          System.out.println("Saturday");
       case 7:
          System.out.println("Sunday");
       default:
          System.out.println("Invaild");
    }
     scanner.close();
  }
}
enhance:
switch(day){
       case 1 -> System.out.println("Monday");
       case 2 -> System.out.println("Tuesday");
       case 3 -> System.out.println("Wednesday");
       default -> System.out.println("Invaild");
    }
Ternary Operator:
enhancing code if else:
int n=5
if(n==5){
  System.out.println("Yes");
}else{
  System.out.println("No");
enchanced:
Syntax:
(condition)? statement1 : statement2;
```

```
example:
(n==5)? System.out.println("Yes"):System.out.println("No");
or
String res = (n=5)?("Yes") : ("No");
System.out.println(res);
enchane FOR LOOP or FOR EACH LOOP:
    • In collections we don't have index values in those situation we have to use for each loop
example:
int[]arr = \{1,2,3,4,5\};
for(int var:arr){
  System.out .println(var)
}
Code example with enhance:
    1. Switch case:
class SimpleNum{
  public static void main(String[] args){
     int n=3;
     switch(num){
       case 1:
          System.out.println("Number 1");
          break:
       case 2:
          System.out.println("Number 2");
          break;
       case 3:
          System.out.println("Number 3");
          break;
       default:
          System.out.println("Invaild");
    }
```

```
}
enhanced
class SimpleNum{
  public static void main(String[] args){
     int n=3;
     switch(num){
       case 1 --> System.out.println("Number 1");
       case 2 --> System.out.println("Number 2");
       case 3 --> System.out.println("Number 3");
       default --> System.out.println("Invaild");
    }
    1. if else:
class NumberCheck{
  public static void main(String[] args){
     int n = -5;
     if(n>0){
       System.out.println("Postive");
     else{
       System.out.println("Negative");
  }
}
Enchanced:
class NumberCheck{
  public static void main(String[] args){
     int n = -5;
     (n==-5)?System.out.println("Postive"): System.out.println("Neagative");
```

```
}
For loop or for each loop
class NumberExample{
  public static void main(String[] args){
     int[] numbers = {10,20,30,40,50};
     System.out.println("Print Array");
     for(int n : numbers) {
       System.out.println(n);
     }
 }
enhanced
class NumberExample{
  public static void main(String[] args){
     int[]arr={10,20,30,40,50};
     for(int var:arr){
       System.out.println(var);
  }
123
1234 12345 1234567 code this
class Numbers{
  public static void main(String[]args){
     for(int i= 1;i <= 5;i++){
       for(int j = 1; j < = i; j + +){
          System.out.print(j);
       }
```

```
System.out.println();
     }
  }
}
for center aligned:
class Numbers{
  public static void main(String[]args){
     for(int i = 1; i < = 5; i++){
        for(int s=1;s<=5-i;s++){
           System.out.print(" ");
        }
        for(int j = 1; j < = (2*i - 1); j + +){
           System.out.print(j);
        }
        System.out.println();
     }
  }
}
for Printing * pattern
class Numbers {
  public static void main(String[] args) {
     for (int i = 5; i >= 1; i--) {
        for (int j = 1; j \le i; j++) {
           System.out.print("*");
        }
        System.out.println();
     }
  }
}
```

```
class Numbers {
  public static void main(String[] args) {
     for (int i = 1; i < 5; i++){
       for(int s=1;s<=5-i;s++){
          System.out.print(" ");
       for (int j = 1; j \le 2^*i-1; j++) {
          System.out.print("*");
       System.out.println();
  }
}
Reversing the number:
class Main{
  public static void main(String[]args){
     int n=123;
     int res=0;
     while(n!=0){
       int rem = n\%10;
       res = res*10+rem;
       n=n/10;
     System.out.println(res);
  }
}
Addition of number:
class Main{
  public static void main(String[]args){
     int n=1231;
     int res=0;
     while(n>9){
     while(n!=0){
```

```
int rem = n%10;
    res = res+ rem;
    n=n/10;
}
System.out.println(res);
}
}
```

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

edit this above not correct