Print final z given xyz

```
public static void main(String[] args) {
     Scanner scn = new Scanner(System.in);
    int x = scn.nextInt();
    int y = scn.nextInt();
    int z = scn.nextInt();
    if ( x >= 20 && z < 100 ) {
   z += 200;
} else if ( x >= 10 || y < 50 ) {</pre>
          z += 100;
     System.out.println(z);
```

Print if divisible by both 3 and 4

```
n % 4 = = 0
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    if ( n % 3 == 0 && n % 4 == 0 ) {
        System.out.println("Divisible by 3 and 4");
    } else {
        System.out.println("Not Divisible");
    }
}
```

Print z and x divisible by 3

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
   int x = scn.nextInt();
   int y = scn.nextInt();
   int z = scn.nextInt();
    if (x \% 3 == 0) {
     __} else if ( y >= 100 && y < 200 ) {
          z += 5;
      ___} else if ( y >= 50 && y < 100 ) {
     __} else if ( y < 50 ) {
           z += 1;
   } else {
      _if ( y >= 200 ) {
      } else if ( y >= 100 && y < 200 ) {
          z += 2;
      _} else if ( y < 100 ) {
           z += 1;
   z += 10;
    System.out.println(z);
}
```

=> Characters, (char) (a', 'b', 'C', 'Z', '+', '7.', ' all characters are surrounded by single quotes -> String, (String) Collection of characters

always sworounded by double quotes String str = "Abhik Patra";

-> Inbuilt functions String str = "aAbB+-* 123"; Indexing: - imaginary no. always start from zero (return int) charch = str. charAt (index); (return char)

Str = "Aditee Lanjewar";

- 1) str. Jength () -> 15
- 2) str. chanAt(7) -> 'L'
 - str. charAt(5) -> 'e'
 - str. charAt(6) -> ")
 - str. charAt (13) -> genar
 - (String Index Out of Bound)

```
Input 3- String str = "Amit Tanwar ABC"
String: - 1) Scn. next Line (); / Amit Tanwar ABC"
         2) scn. next(); // "Amit"
```

Grade the student-2

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    char ch = scn.next().charAt(0);
    switch(ch) {
        case 'A':
            System.out.println("Excellent!");
            break;
        case 'B':
            System.out.println("Well done!");
            break;
        case 'C':
            System.out.println("You passed!");
            break:
        case 'F':
            System.out.println("Better luck next time!");
            break;
        default:
            System.out.println("Invalid grade");
```

code (using ladder)

```
if ( ch == 'A' ) {
    System.out.println("Excellent!");
} else if ( ch == 'B' ) {
    System.out.println("Well done!");
} else if ( ch == 'C' ) {
    System.out.println("You passed!");
} else if ( ch == 'F' ) {
    System.out.println("Better luck next time!");
} else {
    System.out.println("Invalid grade");
}
```

Switch Calculator 1

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int a = scn.nextInt();
    int b = scn.nextInt();
    switch(n) {
        case 10:
            System.out.println(a + b);
            break:
        case 20:
            System.out.println(a - b);
            break;
        case 30:
            System.out.println(a * b);
            break;
        case 40:
            System.out.println(a % b);
            break;
        case 50:
            System.out.println(a / b);
            break;
        default:
            System.out.println("Enter a valid number");
            break;
```