L) functions are something which is used to bind a piece of code and we it accordingly. TPublic static void fun() \$ main():- main function is going to get executed at very first time. electore a function: function definition calling a function: - wing that function public static void main(String[] args) sayhi(); // function calling public static void sayhi() { // function decalaration System.out.println("Hi !!!"); cnla;

void - nothing 4 Ketwin when a function get destroyed it networks some output called return type. public static void main(String[] args) { int a = sayhi(); // function calling System.out.println(a); console S kills the function or daway H1!!! of diff. blu void type for & return type for

## Graneters: ralues passed in fr

```
public static void main(String[] args) {
      Scanner scn = new Scanner(System.in);
      int salary = scn.nextInt();
      int years = scn.nextInt();
      // int ans = solve(years, salary);
      // System.out.println(ans);
      System.out.println(solve(years, salary));
 public static int solve(int years, int salary) {
     int bonus = 0;
      if (years > 5) {
          bonus = (5 * salary / 100);
      return bonus;
parameters are different variables
but fauity same value as of
parent fr.
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int salary = scn.nextInt();
    int years = scn.nextInt();
    int ans = solve(years, salary);
    System.out.println(ans);

    // System.out.println(solve(years, salary));
}

public static int solve(int y, int s) {
    int bonus = 0;
    if (y > 5) {
        bonus = (5 * s / 100);
    }
    return bonus;
}
```

int a = 50int b = 60 a = 6, b = 5Syso  $(a, +^{\circ}, '' + b)$ ;

```
Hru)
```

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int a = scn.nextInt();
    int b = scn.nextInt();
    System.out.println("First value : " + a + ", Second value : " + b);
    // task is to swap values of variables
    swap(a, b);
}

public static void swap(int x, int y) {
    int temp = x;
    x = y;
    y = temp;

    System.out.println("First value : " + x + ", Second value : " + y);
}
```

```
First value : 5, Second value : 6
First value : 6, Second value : 5
```

## Print "even" or "odd" from a list of integers

```
public static void solve(int num) {
    if ( num % 2 == 0 ) {
        System.out.println("even");
    } else {
        System.out.println("odd");
    }
}

public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    while (n-- > 0) {
        int num = scn.nextInt();
        solve(num); // main logic
    }
}
```

\_ even

```
public static void solve1(int num) {
    if ( num % 2 == 0 ) {
        System.out.println("even");
    } else {
        System.out.println("odd");
    }
}

public static void solve() {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    while (n-- > 0) {
        int num = scn.nextInt();
        solve1(num); // main logic
    }
}

public static void main(String[] args) {
    solve();
}
```