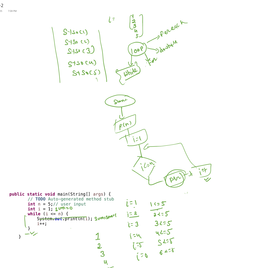

```
public static void main(String[] args) {
    // TODO Auto-generated method stub
    int n = 5;//user input
    int i = 1;//row
    while (i <= n) {
        System.out.print(i+" ");//output
        i++;
    }
}
```

1 2 3 4 5

Ques 1:
n = 5

```
public static void main(String[] args) {
    // TODO Auto-generated method stub
    int n = 5;
    int i = 1;
    while (i <= n) {
        System.out.print("* ");
        i++;
    }
}
```

Pattern-1

```
int n = 5;//user input
int row = 1;
int star = 1;
while (row <= n) {
    // star
    int j = 1;
    while (j <= star) {
        System.out.print("* ");
        j++;
    }
    // next line prep
    System.out.println();
    row++;
    star++;
    space--;
}
```

Ques 2:
n = 5

```
int n = 5;//user input
int row = 1;
int star = 1;
int space = n - 1;
while (row <= n) {
    // space
    int s = 1;
    while (s <= space) {
        System.out.print(" ");
        s++;
    }
    // star
    int j = 1;
    while (j <= star) {
        System.out.print("* ");
        j++;
    }
    // next line prep
    System.out.println();
    row++;
    star++;
    space--;
}
```

Ques 4:
n = 5

```
int n = 5;//user input
int row = 1;
int star = 1;
int space = n - 1;
while (row <= n) {
    // space
    int s = 1;
    while (s <= space) {
        System.out.print(" ");
        s++;
    }
    // star
    int j = 1;
    while (j <= star) {
        System.out.print("* ");
        j++;
    }
    // next line prep
    System.out.println();
    row++;
    star++;
    space--;
}
```

Ques 6:
n = 5

```
int n = 5;//user input
int row = 1;
int star = 1;
int space = 0;
while (row <= n) {
    // space
    int s = 1;
    while (s <= space) {
        System.out.print(" ");
        s++;
    }
    // star
    int j = 1;
    while (j <= star) {
        System.out.print("* ");
        j++;
    }
    // next line prep
    System.out.println();
    row++;
    star += 2;
    space--;
}
```

Ques 8:
n = 5

```
int n = 5;//user input
int row = 1;
int star = 1;
int space = n - 1;
while (row <= n) {
    // space
    int s = 1;
    while (s <= space) {
        System.out.print(" ");
        s++;
    }
    // star
    int j = 1;
    while (j <= star) {
        System.out.print("* ");
        j++;
    }
    // next line prep
    System.out.println();
    row++;
    star += 2;
    space = space - 2;
    star++;
}
```

Ques 22:
n = 5

```
int n = 5;//user input
int row = 1;
int star = 1;
int space = 2 * n - 3;
while (row <= n) {
    // star
    int j = 1;
    while (j <= star) {
        System.out.print("* ");
        j++;
    }
    // space
    int s = 1;
    while (s <= space) {
        System.out.print(" ");
        s++;
    }
    // star
    int k = 1;
    while (k <= star) {
        System.out.print("* ");
        k++;
    }
    // next line prep
    System.out.println();
    row++;
    star = star + 2;
    space = space - 2;
}
```