# Topics to discuss

· Print Number Patterns

Top 20 Number Pattern With code

l. Pattern 1	2. Pattern 2	3. Pattern 3	4. Pattern 4	5. Pattern 5	6. Pattern 6
11111 22222 33333 44444 55555	12345 12345 12345 12345 12345	1 22 333 4444 55555	1 12 123 1234 12345	1 12 123 1234 12345	1 22 333 4444 55555
8. Pattern 8  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	9. Pattern 9 5 4 3 2 1 5 4 3 2 5 4 3 5 4 5	10. Pattern 10  1 2 3 4 5 2 3 4 5 3 4 5 4 5 5	11. Pattern 11  1 2 1 3 2 1 4 3 2 1 5 4 3 2 1	12. Pattern 12  1 2 1 2 3 2 1 2 3 4 3 2 1 2 3 4 5 4 3 2 1 2 3 4 5	13. Pattern 13  1 0 1 1 0 1 0 1 0 1 1 0 1 0 1
15. Pattern 15  1 1 1 1 2 1 1 3 3 1	16. Pattern 16  1 1 2 1 2 3 1 2 3 4 1 2 3 4 5 1 2 3 4 1 2 3 1 2 3 1 2 1	17. Pattern 17  123456 234561 345612 456123 561234 612345	18. Pattern 18  1 2 6 3 7 10 4 8 11 13 5 9 12 14 15		
19. Pattern 19  10101 01010 10101 01010 10101	20. Pattern 20  1 1 2 1 1 2 3 2 1 1 2 3 4 3 1 2 3 4 5	2 1			

7. Pattern 7

14. Pattern 14

1 2 3 4 5 2 3 4 5 3 4 5

1 2 3 4 5

#### 1 Number Pattern 1:

Outer for  $loop \rightarrow No. of rows$ Inter for  $loop \rightarrow No. of columns.$  I/p: 80w=5 col=5

22222 33333 44444 55555

#### 2 Number Pattern 2:

I/p: 80W=5 col=5

#### (3) Number Pattern3:

```
Static void solution (int row) {

for (int i=1;i<=row;i++) {

for (int j=1;j<=i;j++) {

    System.out.print(i);

}

System.out.println();

}
```

```
I/Þ: 80W = 5

O/Þ: 1
22
333
4444
55555
```

#### 4 Number Pattern4:

```
Static void solution (int row) {

for (int i=1; i<= row; i++) {

for (int j=1; j<= i; j++) {

System. out. print(j);

}

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

I/p: yow = 5

O/p: 1
12
123
1234
12345

#### 5 Number Pattern5:

```
Static void solution (int row) {
   for (int i=1; i<= 8000; i++){
        for (int j = xow-1; J >= i; j--) {

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

I/p: 80W = 5

0/þ:

1 12 123 1234 12345

#### 6 Number Pattern6:

```
Static void solution (int row) {
   for (int i=1; i<= 80w; i++){
        for (int j = row-1; J >= i; j--) {

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

```
I/Þ: 80W = 5
0/Þ:
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

#### 7 Number Pattern7:

I/p: 80W = 5

0/p:

#### 8 Number Pattern8

```
Static void solution (mt row) {
    int n=1;
  for (int i=1; i<= row; i++) {
      for Lint j=1; j<=i; j++){
          System. out. print (n + ")
       system. out. print ln();
```

```
T/p: 80W = 5

0/p: 1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

## 9 Number Pattern9:

```
Static void solution (int row) {
   for (int i=1; i<= row; i++) {
       for (int j=1; j<i; j++) {
           System. out. print ("");
       for (int j = row; J >= i';j--){

System. out. print (j+"").
       System. Out. print (n ();
```

```
I/þ: Yow = 5

O/þ: 54321
5432
543
```

### (10) Number Pattern10:

```
Static void solution (int row) {
   for (int i=1; i<= row; i++) {
       for (int j=1; j<i; j++) {
       2 System. out. print (" ");
       for (int j=i; j<=row; j++){

System. out. print (j+"").
       System. Out. print ln ().
```

I/b: 80W=5

0/b.

1 2 3 4 5
2 3 4 5
3 4 5
4 5
5

#### (11) Number Pattern11:

```
Static void solution (int row) {
   for (int i=1; i<= row; i++) {
       for (int j= vow; j>i; j--) {
         System. out. print (""),
       for (int j=i; j>=1; j--){

System. out. print (j+"").
       System. Out. print ln ();
```

I/þ: Yow = 5

O/þ: 21
321
4321
54321

#### (12) Number Pattern 12:

```
Static void solution (int row) {
   for (int i=1; i<= row; i++) {
      for (int j= vow; j>i; j--){
        System. out. print ("");
      for (int j=i; j>=1;j--){
           System. out. print (j+"").
       for (int j=2; j<=i; j++){

System. out. print (j+"").
       System. Out. print ln ();
```

I/b: 80W = 5

0/b

1
212
32123
4321234
543212345

## (13) Number Pattern 13:

```
Static void solution (int row) {
   for (int i=1; i<=80W; i++) {
       for (int j=1; j<=i;j++) {
          if ((i+j) % 2 = = 0)
              System out print (1+"");
            else
System.out.print (0+"");
       System.out.println();
```

```
I/Þ: 80W=5

0/Þ. 1
01
0101
0101
```

#### (14) Number Pattern14:

```
Static void solution (int row) {
   for (int i=1; i<= row; i++) {
      for (int j=1; j<i; j++) {
       System. out. print (""),
      for (int j=1; j<=row; j++){

System. out. print (j+"").
  3 System. Out. print (n).
  for (int i= 10w-1; i7:1; i--) {
     for (int j=1; j<i; j++) {
      System. out. print ("").
     for (int j=i; j<=row; j++){

System. out. print (j+"").
     System. Out. print ln ().
```

I/p: 80W = 5

## (15) Number Pattern 15:

```
Static void solution (int row) {
   for (int i=1; i<=80W; i++) {
      for (int j= vow; j>(; j--) {
           System out print ("");
      int x=1;
      for (int j=1;j <=(j+1))
           System. Out. print (x + "");
           x= x * (i-j)/j;
     System. out. print ln();
```

```
I/p: 80W = 5
            1 3 3 1
              i=3 j=1
\times \times (1)
             X= 1×2=2
x x (j) (j)
 \times (1)(2)
             i=3 j=2
 133
              x=2
             x=2x(3-2)
```

= 1. 2

## (16) Number Pattern 16:

```
Static void solution (int row) {
  tor (int i=1; i<= row; i++) {
     for (int j=1 ; j<=i; j++){
        System. out. print (j+");
      system-out. println();
  for (int i= 80w-1; i>=1; i--) {
       for (int j=1; j<=i; j++) {

System. out. print (j+"");

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

```
T/p: yow:5

0/p: 1
1 2
1 2 3
1 2 3 4
1 2 3 4
1 2 3 4
1 2 3
1 2 3
1 2
1
```

#### (17) Number Pattern 17:

```
Static void solution (int row) {
    for [ int i=1; i<= 80W; i++) {
         for (int j=i; j<= 80w; j++){
            System. out. print (j);
         for (int j=2; j <=i; j++) {

System. out. print (j-1);

?
         System. out. print ln ()
```

T/Þ: 80W = 6

123456
234561
345612
456123
561234
612345

## (18) Number Pattern 18:

```
I/P: 80W = 5

0/P: 1
2 6
3 7 10
4 8 11 13
5 9 12 14 15
```

## (19) Number Pattern 19:

```
Static void solution (int row) {
   for (int i=1; i<=80 w; i++) {
        int n;
        if (ix2 == 0) {
            n=0;
            for (int j=1; j <= col; j++) {
                System.out. print (n)
                 n= (n==0) ? 1:0;
         else {
             m=1;
             for (int j=1; j <= col; j++) {
                 System.out. print (n);
                  n = (n = 0) ? | .0 
          system.out.println();
```

I/p: 80w=5 col=5

0/b: 10101 01010 10101 01010 10101

#### 20) Number Pattern 20

```
Static void solution (int row) {
   for (int i=1; i<= row; i++) {
       for (int j=1; j <=i; j++) {

System.out.print(j+");

2
       for (int j=i-1; j>=1;j--){

Seystem.out. print (j+"");
      Sepstem. out. println (),
```

```
I/>: 80W = 5

0/Þ

1
1 2 1
1 2 3 2 1
1 2 3 4 3 2 1
1 2 3 4 5 4 3 2 1
```

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