Q. Print even numbers from 2 to 50
A. class EvenNumbers {

    public static void main(String[] args) {

        for(int i=2;i<=50;i+=2) {

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

        }

    }

  }

Output:

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50

Q. Print square of numbers from 1 to 10
A. class Squares {

    public static void main(String[] args) {

        for(int i=1;i<=10;i++) {

            System.out.println(i*i);

        }

    }

  }

Output:

1

4

9

16

25

36

49

64

81

100

Q. Calculate sum of first 50 numbers
A . class SumFirst50 {

    public static void main(String[] args) {

```java
            int sum=0;

            for(int i=1;i<=50;i++) {

                sum+=i;

            }

            System.out.println(sum);

        }

    }
```

Output:

1275

Q. Print multiplication table for 17
A. class Table17 {

```java
    public static void main(String[] args) {

        for(int i=1;i<=10;i++) {

            System.out.println(17 + " x " + i + " = " + (17*i));

        }

    }

}
```

Output:

17 x 1 = 17

17 x 2 = 34

17 x 3 = 51

17 x 4 = 68

17 x 5 = 85

17 x 6 = 102

17 x 7 = 119

17 x 8 = 136

17 x 9 = 153

17 x 10 = 170

Q. Print reverse numbers from 20 to 1
A. class Reverse20 {

```java
    public static void main(String[] args) {

        for(int i=20;i>=1;i--) {
```

```java
            System.out.print(i + " ");
        }
    }
}
```

Output:

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

Q. Print factorial of a number
A.
```java
class Factorial {
    public static void main(String[] args) {
        int num=5;
        int fact=1;
        for(int i=1;i<=num;i++) {
            fact*=i;
        }
        System.out.println(fact);
    }
}
```

Output:

120

Q. Check if a number is prime
A.
```java
class PrimeCheck {
    public static void main(String[] args) {
        int num=29;
        boolean prime=true;
        for(int i=2;i<=num/2;i++) {
            if(num%i==0) {
                prime=false;
                break;
            }
        }
        if(prime) System.out.println("Prime");
        else System.out.println("Not Prime");
```

```
        }
    }
```

Output:

Prime

Q. Print pyramid pattern
A.
```
class Pyramid {
    public static void main(String[] args) {
        for(int i=1;i<=5;i++) {
            for(int j=1;j<=5-i;j++) {
                System.out.print(" ");
            }
            for(int k=1;k<=2*i-1;k++) {
                System.out.print("*");
            }
            System.out.println();
        }
    }
}
```

Output:

```
    *
   ***
  *****
 *******
*********
```

Q. Print diamond shape using * sign
A.
```
class Diamond {
    public static void main(String[] args) {
        int n=5;
        for(int i=1;i<=n;i++) {
            for(int j=1;j<=n-i;j++) {
                System.out.print(" ");
            }
```

```
            for(int k=1;k<=2*i-1;k++) {

                System.out.print("*");

            }

            System.out.println();

        }
        for(int i=n-1;i>=1;i--) {

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

                System.out.print(" ");

            }

            for(int k=1;k<=2*i-1;k++) {

                System.out.print("*");

            }

            System.out.println();

        }

    }

  }
```

Output:
```
    *
   ***
  *****
 *******
*********
 *******
  *****
   ***
    *
```

Q. Print Fibonacci series up to 10 terms

A.
```
class Fibonacci {

    public static void main(String[] args) {

        int a=1, b=2, c;

        System.out.print(a + " " + b + " ");
```

```java
        for(int i=3;i<=10;i++) {

            c=a+b;

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

            a=b;

            b=c;

        }

    }

}
```

Output:

1 2 3 5 8 13 21 34 55 89

Q. Count total digits in a number
A.
```java
class CountDigits {

    public static void main(String[] args) {

        int num=987654;

        int count=0;

        while(num!=0) {

            num/=10;

            count++;

        }

        System.out.println(count);

    }

}
```

Output:

6

Q. Check palindrome number
A.
```java
class Palindrome {

    public static void main(String[] args) {

        int num=121, temp=num, rev=0;

        while(num!=0) {

            rev=rev*10 + num%10;

            num/=10;

        }
```

```java
            if(temp==rev) System.out.println("Palindrome");

            else System.out.println("Not Palindrome");

        }

    }
```

Output:

Palindrome

Q. Sum of digits of number

A.
```java
class SumDigits {

    public static void main(String[] args) {

        int num=6785;

        int sum=0;

        while(num!=0) {

            sum+=num%10;

            num/=10;

        }

        System.out.println(sum);

    }

}
```

Output:

26