

19

100/100

1) import java.util.Scanner;

Public class sumofnum{

Public static void main(String[] args){

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the number of elements: ");

int n = scanner.nextInt();

int[] numbers = new int[n];

System.out.println("Enter the numbers:");

for (int i=0; i<n; i++){

numbers[i] = scanner.nextInt();

}

int sum=0;

for (int number: numbers){

sum += number;

}

System.out.println(sum);

scanner.close();

}

}

2) Public static int factorial(int n){

if (n==0){

return 1;

} else {

} return n*factorial(n-1);

3) Public class ReverseNumber {

Public static void main (String[] args) {

int number = 12345;

int reversedNumber = 0;

while (number != 0) {

int digit = number % 10;

reversedNumber = reversedNumber * 10 + digit;

number /= 10;

}

System.out.println("Reversed Number: " + reversedNumber);

}

}

4) Public class HappyNumber {

Public boolean isHappy (int n) {

Set<Integer> seen = new HashSet<>();

while (n != 1 && !seen.contains(n)) {

seen.add(n);

n = getNext(n);

}

return n == 1;

}

Private int getNext (int n) {

int totalsum = 0

while (n > 0) {

int ~~di~~ rem = n % 10

totalsum += ~~di~~ rem * digit;

}
return totalsum

}

}

5) public class Sum of Natural Numbers {

Public static void main (String[] args) {

int n = 10;

int sum = (n * (n + 1)) / 2;

System.out.println ("sum of first " + n + " natural number ! " + sum);

}

}

6) public class PalindromeNum {

Public static boolean is Palindrome (int ⁿnumber) {

int reverseNum = 0

int or-num = ⁿnumber;

while (n != 0) {

int digit = n % 10;

reverseNum = reverseNum * 10 + digit;

n /= 10;

}

```
return originalNum == reverse num;
```

```
}
```

```
Public static void main (String[] args) {
```

```
int number = 12321;
```

```
if (isPalindrome(num)) {
```

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

```
else {
```

```
    System.out.println(num + "is not palindrome");
```

```
}
```

```
}
```

```
}
```

```
7). Public class Main {
```

```
    Public static void main (String[] args) {
```

```
        int n = 25;
```

```
        if (n % 5 == 0 {
```

```
            System.out.println(n + "divisible");
```

```
        else {
```

```
            System.out.println(n + "not divisible");
```

```
        }
```

```
}
```

```
public class Main {
```

```
    public static boolean isPrime (int number) {
```

```
        if (number <= 1) {
```

```
            return false;
```

```
        }
```

```
        for (int i = 2; i <= Math.sqrt(number); i++) {
```

```
            if (number % i == 0) {
```

```
                return false;
```

```
            }
```

```
        }
```

```
        return true;
```

```
    }
```

```
}
```

9)

```
public class ArmstrongNumbers {
```

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

```
        int s = 100; e = 999;
```

```
        for (int i = s; i <= e; i++) {
```

```
            if (isArmstrong(i)) {
```

```
                System.out.println(i + " is Armstrong");
```

```
            }
```

```
        }
```

```
    }
```

```
Public static boolean isArmstrong(int n){
```

```
    int temp, digit, sum = 0;
```

```
    temp = n
```

```
    while(temp != 0){
```

```
        digit = temp % 10;
```

```
        sum += Math.pow(digit, 3);
```

```
        temp /= 10;
```

```
    }
```

```
    return sum == temp;
```

```
}
```

```
}
```

```
10) Public class Bin-Deci convert{
```

```
    Public static void main (String[] args){
```

```
        String binaryNum = "101010";
```

```
        int deci_Num = Integer.parseInt (Bin-num, 2);
```

```
        System.out.println ("Binary Number" + bin-num);
```

```
        System.out.println ("Decimal Number:" + deci_num);
```

```
    }
```

```
}
```



```
Public class GCD_LCM {
```

```
Public static void main (String[] args) {
```

```
int n1 = 24, n2 = 36;
```

```
int gcd = findGCD (n1, n2);
```

```
int lcm = (n1 * n2) / gcd;
```

```
System.out.println ("GCD " + n1 " and " + n2 + " is " + gcd);
```

```
System.out.println ("LCM of " + n1 " and " + n2 + " is " + lcm);
```

```
}  
Public static int find GCD (int a, int b) {
```

```
if (b == 0) {
```

```
return a;
```

```
}
```

```
return find GCD (b, a % b);
```

```
}
```

```
}
```

```
Public class Sum of Even-Odd Num {
```

```
Public static void main (String[] args) {
```

```
int[] numbers = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};
```

```
int SumEven = 0
```

```
int SumOdd = 0
```

```
for (int n : numbers) {
```

```
if (n % 2 == 0) {
```

```
    sumEven = n;
```

```
} else {
```

```
    sumOdd += number;
```

```
}
```

```
System.out.println("Sum Even: " + sumEven);
```

```
System.out.println("Sum Odd: " + sumOdd);
```

```
}
```

```
}
```



```
Public class Fah to cel {
```

```
    Public static void main (String[] args) {
```

```
        double fahrenheit = 98.6;
```

```
        double celsius = (fahrenheit - 32) * 5 / 9;
```

```
        System.out.println ("fahrenheit = " + fahrenheit + " -> celsius = " + celsius);
```

```
    }
```

```
}
```

```
Public class Num {
```

```
    Public static void NumtoN (int n) {
```

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

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

```
        }
```

```
    Public static void main (String[] args) {
```

```
        int n = 10;
```

```
        NumtoN (n);
```

```
    }
```

```
}
```

```

15) import java.util.Scanner;

public class vowelsConsonantCount {

    public static void main(Strings[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("enter a string:");
        String input = scanner.nextLine().toLowerCase();
        int vowels = 0; consonants = 0;
        for (int i = 0; i < input.length(); i++) {
            char ch = input.charAt(i);
            if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o'
                || ch == 'u') {
                vowels++;
            } else if ((ch > 'a' && ch < 'z')) {
                consonants++;
            }
        }
        System.out.println("vowels: " + vowels);
        System.out.println("consonants: " + consonants);
    }
}

```

```
Public class Swap {
```

```
    Public static void main (String[] args) {
```

```
        float f = 1.25f , s = 2.45f;
```

```
        System.out.println (+f);
```

```
        System.out.println (+s);
```

```
        float temp = f;
```

```
        f = s;
```

```
        s = temp;
```

```
        System.out.println (+f);
```

```
        System.out.println (+s);
```

```
    }
```

```
}
```

17)

```
Public class Largest {
```

```
    Public static void main (String[] args) {
```

```
        double n1 = -4.5, n2 = 3 , n3 = 7
```

```
        if (n1 >= n2 && n1 >= n3)
```

```
            System.out.println (n1 + "largest");
```

```
        else if (n2 >= n1 && n2 >= n3)
```

```
            System.out.println (n2 + "is largest");
```

```
        else if
```

```
            System.out.println (n3 + "largest");
```

```
        output : 7 is largest.
```

```
    }
```

```
}
```

18) `Public class Multitable {`
`Public static void main (String[] args) {`
`int n=5`
`for (int i=1; i<=10; i++) {`
`System.out.println (" %d*%d = %d \n",n,i,n*i);`
`}`
`}`
`}`

19 `Public class main {`
`Public static void main (String[] args) {`
`int n=60;`
`for (int i=1; i<=number; i++) {`
`if (n%i==0) {`
`System.out.print (i+" ");`
`}`
`}`
`}`

20 `class main {`
`Public static void main (String[] args) {`
`int b=3; e=4;`
`long result = 1;`
`while (e!=0) {`

result *= b;

c--;

}

System.out.println(+result);

}

}