1.

**package** Demo.java;

**public** **class** question1 {

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

// **TODO** Auto-generated method stub

**int** a[] ={2,43,66,923,5,13,123,432,44,78};

**int** x=100;

**for**(**int** num:a) {

**if**(num>x) {

System.***out***.println(num +" ");

}

}

}

}

2.

**package** Demo.java;

**public** **class** duplicate {

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

// **TODO** Auto-generated method stub

**int** a[]= {1,2,3,4,2,7,8,8,3};

**for**(**int** i=0;i<a.length;i++) {

**for**(**int** j=i+1;j<a.length;j++) {

**if**(a[i]==a[j]) {

System.***out***.print(a[i]+ ",");

**break**;

}

}

}

}

}

3.

**package** Demo.java;

**import** java.util.\*;

**public** **class** question3 {

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

// **TODO** Auto-generated method stub

Scanner sc=**new** Scanner(System.***in***);

String word1=sc.nextLine();

String word2=sc.nextLine();

String word3=sc.nextLine();

sc.close();

word1=word1.replaceAll("[AEIOUaeiou]", "\*");

word2=word2.replaceAll("[^AEIOUaeiou]","@");

word3=word3.toUpperCase();

String s=word1+word2+word3;

System.***out***.println(word1);

System.***out***.println(word2);

System.***out***.println(word3);

System.***out***.println(s);

}

}

4.

**package** Demo.java;

**public** **class** question4 {

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

// **TODO** Auto-generated method stub

String str1="this is java";

String str2="java";

System.***out***.println(str1.contains(str2));

}

}

5.

**package** Demo.java;

**import** java.util.Arrays;

**public** **class** anagram {

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

// **TODO** Auto-generated method stub

String str1="Ramu";

String str2="umar";

**char**[] arr1=str1.toLowerCase().toCharArray();

**char**[] arr2=str2.toLowerCase().toCharArray();

Arrays.*sort*(arr1);

Arrays.*sort*(arr2);

**if**(Arrays.*equals*(arr1, arr2)) {

System.***out***.println("Anagram");

}

**else** {

System.***out***.println("Not Anagram");

}

}

}

6.

**package** Demo.java;

**import** java.util.\*;

**public** **class** operators {

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

// **TODO** Auto-generated method stub

Scanner sc=**new** Scanner(System.***in***);

**int** num1=sc.nextInt();

**int** num2=sc.nextInt();

sc.nextLine();

**char** operator=sc.next().charAt(0);

sc.close();

**switch** (operator) {

**case** '+':System.***out***.println(num1+num2);**break**;

**case** '-':System.***out***.println(num1-num2);**break**;

**case** '\*':System.***out***.println(num1\*num2);**break**;

**case** '/':System.***out***.println(num2!=0 ? num1/num2:"cannot divide by zero");**break**;

**default**:System.***out***.println("Invalid operator");

}

}

}

7.

**package** Demo.java;

**public** **class** student {

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

// **TODO** Auto-generated method stub

**int** avg=80;

**if**(avg>=80) {

System.***out***.println("Grade A");

}

**else** **if**(avg>=60) {

System.***out***.println("Grade B");

}

**else** **if**(avg>=40) {

System.***out***.println("Grade C");

}

**else** {

System.***out***.println("Grade D");

}

}

}

8.

**package** Demo.java;

**import** java.util.\*;

**public** **class** eligible {

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

// **TODO** Auto-generated method stub

Scanner sc=**new** Scanner(System.***in***);

**double** height=sc.nextDouble();

**double** weight=sc.nextDouble();

sc.close();

**if**(height>=5.5 && weight>55) {

System.***out***.println("This person is Eligible for physical test");

}

**else** {

System.***out***.println("This person is not eligible for physical test ");

}

}

}

9.

**package** Demo.java;

**import** java.util.\*;

**public** **class** CharCheck {

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

// **TODO** Auto-generated method stub

Scanner sc=**new** Scanner(System.***in***);

**char** c=sc.nextLine().charAt(0);

**char** cl= Character.*toLowerCase*(c);

**if**(cl=='a'|| cl=='e'||cl=='i'||cl=='o'||cl=='u') {

System.***out***.println("vowel");

}

**else** {

System.***out***.println("consonant");

}

}

}

10.

**package** Demo.java;

**import** java.util.\*;

**public** **class** question10 {

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

// **TODO** Auto-generated method stub

Random r=**new** Random();

**int** n=r.nextInt(100);

**if**(n==0) {

n=n+1;

}

**if**(n%2==1) {

System.***out***.println("Weird");

}

**else** **if**((n%2==0) &&(n>=2 &&n<=5)) {

System.***out***.println("Not Weird");

}

**else** **if**((n%2==0)&&(n>=6 && n<=20)) {

System.***out***.println("Weird");

}

**else** **if**((n%2==0 && n>20)) {

System.***out***.println("Not weird");

}

}

}