1.

**package** assignment2;

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

**public** **class** oddoreven {

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

{

**int** a;

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

System.***out***.println("Enter the no to be checked : ");

a=sc.nextInt();

**if**( a%2 == 0 )

{

System.***out***.println(a+" is Even");

}

**else**

{

System.***out***.println(a+" is Odd");

}

}

}

2.

**package** assignment2;

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

**public** **class** swap {

**public** **void** Swap(**int** a,**int** b)

{

**int** temp;

temp=a;

a=b;

b=temp;

System.***out***.println(a+" "+b);

}

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

{

**int** a , b;

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

System.***out***.println("Enter a's value : ");

a=sc.nextInt();

System.***out***.println("Enter b's value : ");

b=sc.nextInt();

swap obj= **new** swap();

System.***out***.println("The values after Swapping : ");

obj.Swap(a,b);

}

}

3.

**package** assignment2;

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

**public** **class** largest {

**public** **int** largest(**int** a,**int** b,**int** c)

{

**int** t=b;

**if**(a>=b)

{

t=a;

}

**if**(t>=c)

{

**return** t;

}

**else**

{

**return** c;

}

}

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

{

**int** a , b ,c;

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

System.***out***.println("Enter a's value : ");

a=sc.nextInt();

System.***out***.println("Enter b's value : ");

b=sc.nextInt();

System.***out***.println("Enter c's value : ");

c=sc.nextInt();

largest obj= **new** largest();

System.***out***.println("The largest value is : ");

System.***out***.println(obj.largest(a,b,c));

}

}

4.

**package** assignment2;

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

**public** **class** character {

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

{

**char** a ;

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

System.***out***.println("Enter a's value : ");

a=sc.next().charAt(0);

**switch**(a)

{

**case** 'a':

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

**break**;

**case** 'e':

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

**break**;

**case** 'i':

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

**break**;

**case** 'o':

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

**break**;

**case** 'u':

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

**break**;

**default**:

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

}

}

}

5.

**package** assignment2;

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

**public** **class** whileven {

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

{

**int** n=1;

**while**(n<=50)

{

**if**(n%2==0)

{

System.***out***.print(n+" ");

}

n++;

}

}

}

6.

**package** assignment2;

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

**public** **class** whileodd {

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

{

**int** n=50;

**while**((n>=50)&&(n<=100))

{

**if**(n%2!=0)

{

System.***out***.print(n+" ");

}

n++;

}

}

}

7.

**package** assignment2;

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

**public** **class** sumofeven {

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

{

**int** n,i=1,sum=0;

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

System.***out***.println("Enter the number: ");

n=sc.nextInt();

**while**(i<=n)

{

**if**(i%2==0)

{

sum+=i;

}

i++;

}

System.***out***.println("Sum of Even nos from 1 to "+n+" is : "+sum);

}

}

8.

**package** assignment2;

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

**public** **class** firstpattern {

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

{

**int** n;

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

System.***out***.println("Enter the no of Rows: ");

n=sc.nextInt();

**for**(**int** i=1;i<=n;i++)

{

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

{

System.***out***.print(" ");

}

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

{

System.***out***.print("\*");

}

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

}

}

}

9.

**package** assignment2;

**import** java.util.Scanner;

**public** **class** reversearray {

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

{

**int** m;

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

System.***out***.println("Enter array size: ");

m=sc.nextInt();

**int** a[]= **new** **int**[m];

System.***out***.println("Enter array values: ");

**for**(**int** i=0;i<m;i++)

{

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

a[i]=t;

}

**int** n= a.length;

**int**[] b = **new** **int**[n];

**int** j = n;

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

b[j - 1] = a[i];

j = j - 1;

}

System.***out***.println("Reversed array is: ");

**for** (**int** k = 0; k < n; k++) {

System.***out***.print(b[k]+" ");

}

}

}

10.

**package** assignment2;

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

**public** **class** swapadj {

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

**int** i, t ,m;

System.***out***.println("Enter array size :");

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

m=sc.nextInt();

**int** arr[] = **new** **int**[m];

System.***out***.print("Enter array numbers:");

**for** (i = 0; i < m; i++) {

arr[i] = sc.nextInt();

}

i = 0;

**while** (i < m - 1) {

t = arr[i];

arr[i] = arr[i + 1];

arr[i + 1] = t;

i = i + 2;

}

System.***out***.print("After swap list are:");

**for** (i = 0; i < m; i++) {

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

}

}

}

**11.**

**package** assignment2;

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

**public** **class** factorial {

**int** fact;

**public** **int** fact(**int** i)

{

**if**(i>1)

{

fact=i\*fact(i-1);

**return** fact;

}

**else** {

**return** 1;

}

}

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

System.***out***.println("Enter the number:");

**int** n;

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

n=sc.nextInt();

factorial f= **new** factorial();

System.***out***.println(f.fact(n));

}

}

12.

**package** assignment2;

**import** java.util.Scanner;

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

**public** **class** prime {

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

**int** i;

**boolean** isPrime = **true**;

System.***out***.println("Enter a positive integer: ");

**int** n;

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

n=sc.nextInt();

**if** (n == 0 || n == 1) {

isPrime = **false**;

}

**else** {

**for** (i = 2; i <= n / 2; ++i) {

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

isPrime = **false**;

**break**;

}

}

}

**if** (isPrime)

System.***out***.println(n+" is a prime number ");

**else**

System.***out***.println(n+" is a not prime number ");

}

}

13.

**package** assignment2;

**import** java.util.Scanner;

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

**public** **class** prime {

**boolean** primee(**int** n)

{

**boolean** isPrime = **true**;

**if** (n == 0 || n == 1) {

isPrime = **false**;

}

**else** {

**for** (**int** i = 2; i <= n / 2; ++i) {

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

isPrime = **false**;

**break**;

}

}

}

**return** isPrime;

}

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

System.***out***.println("Enter a positive integer: ");

**int** n;

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

n=sc.nextInt();

prime obj= **new** prime();

**for**(**int** j=2;j<=n;j++)

{

**if** (obj.primee(j))

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

}

}

}

14.

**package** assignment2;

**import** java.util.Scanner;

**public** **class** reverse {

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

**int** num , reversed = 0;

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

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

num=sc.nextInt();

System.***out***.println("Original Number: " + num);

**while**(num != 0) {

**int** digit = num % 10;

reversed = reversed \* 10 + digit;

num /= 10;

}

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

}

}