**Display Months :**

**package** monday;

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

**public** **class** Months {

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

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

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

**int** month=ok.nextInt();

**if**( month==1)

System.***out***.println("Month:january");

**else** **if** (month==2)

System.***out***.println("month: febuary");

**else** **if** (month==3)

System.***out***.println("month: march");

**else** **if** (month==4)

System.***out***.println("month: April");

**else** **if** (month==5)

System.***out***.println("month: may");

**else** **if** (month==6)

System.***out***.println("month: june");

**else** **if** (month==7)

System.***out***.println("month: july");

**else** **if** (month==8)

System.***out***.println("month: august");

**else** **if** (month==9)

System.***out***.println("month: septmber");

**else** **if** (month==10)

System.***out***.println("month: october");

**else** **if** (month==11)

System.***out***.println("month: Novemebr");

**else** **if** (month==12)

System.***out***.println("month: December");

**else**

System.***out***.println("invalid input");

}

}

**Operator :**

**package** monday;

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

**public** **class** Operator {

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

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

System.***out***.println("Enter Two Numbers");

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

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

String op = Ope.next();

**switch**(op) {

**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(num1/num2);

**break**;

**default**:

System.***out***.println("Invalid Input");

}

}

}

**Grade :**

**package** monday;

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

**public** **class** Grade {

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

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

System.***out***.println("enter the percentage");

**int** perc=grade.nextInt();

**if**(perc>=60)

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

**else** **if**(perc>=45)

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

**else** **if**(perc>=35)

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

**else**

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

}

}

**Complex Numbers :**

**package** monday;

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

**public** **class** Complex {

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

Scanner p1=**new** Scanner(System.***in***);

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

**int** a=p1.nextInt();

System.***out***.println("Enter the first imaginary value:");

**int** b=p1.nextInt();

System.***out***.println("Enter the second real value:");

**int** c=p1.nextInt();

System.***out***.println("Enter the second imaginary value:");

**int** d=p1.nextInt();

**int** real1=a+c;

**int** imaginary=b+d;

System.***out***.println(real1+"+i"+imaginary);

}}

**Odd-Even :**

**package** monday;

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

**public** **class** Odd\_even {

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

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

System.***out***.println("enter two numbers");

**int** n1=Odd.nextInt();

**if**(n1%2==0)

System.***out***.println("n1 is even");

**else**

System.***out***.println("n1 is odd");

}

}

**Largest of three numbers :**

**package** monday;

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

**public** **class** Largest {

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

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

System.***out***.println("enter three numbers");

**int** n1= Large.nextInt();

**int** n2= Large.nextInt();

**int** n3= Large.nextInt();

**if**(n1>n2&&n1>n3)

System.***out***.println(n1+"is largest number");

**if**(n2>n3&&n2>n1)

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

**else**

System.***out***.println(n3+ "is largest number");

}

}

**Lcm :**

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

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

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

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

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

**int** num=1;

**while**(**true**) {

**if**((num%num1 == 0) && (num%num2 == 0)){

**break**;

      }

      num++;

    }

    System.***out***.println(num);

**HCF:**

**package** monday;

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

**public** **class** Hcf {

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

Scanner p1 = **new** Scanner(System.***in***);

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

**int** num1 = p1.nextInt();

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

**int** num2 = p1.nextInt();

**int** num=0;

**for**(**int** i=1;i<=num1;i++) {

**if**((num1%i == 0) && (num2%i == 0)) {

num=i;

}

}

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

}

}

**Prime numbers :**

**package** monday;

**import** java.util.Scanner;

**public** **class** Prime {

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

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

System.***out***.print("Enter the value of N: ");

**int** N = scanner.nextInt();

scanner.close();

System.***out***.print("Prime numbers from 1 to " + N + " are: ");

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

**if** (*isPrime*(i)) {

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

}

}

}

**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**;

}

}

**Leap-year :**

**package** monday;

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

**public** **class** Leapyear {

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

Scanner p1 = **new** Scanner(System.***in***);

System.***out***.println("enter the year");

**int** year = p1.nextInt();

**if** (((year % 4 == 0) && (year % 100!= 0)) || (year%400 == 0))

System.***out***.println("year is a leap year");

**else**

System.***out***.println("year is not a leap year");}

}

**Owles :**

**package** monday;

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

**public** **class** Owels{

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

{

System.***out***.println("Enter Character");

Scanner p1 =**new** Scanner(System.***in***);

**char** ch = p1.next().charAt(0);

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

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

**else**

System.***out***.println("Character is Consonant");

}

}

**Simple Interest :**

**package** monday;

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

**public** **class** Simpleintrest {

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

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

System.***out***.println("enter the numbers");

**int** n1=Simple.nextInt();

**int** n2=Simple.nextInt();

**int** n3=Simple.nextInt();

**int** sum= (n1\*n2\*n3)/100;

System.***out***.println("simple intrest is"+ sum);

}

}

**Compound interest :**

**package** monday;

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

**public** **class** Compound {

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

{

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

System.***out***.println("Enter P value : ");

**float** P = sc.nextFloat();

System.***out***.println("Enter T value : ");

**float** T = sc.nextFloat();

System.***out***.println("Enter R value : ");

**float** R = sc.nextFloat();

System.***out***.println("Enter n value");

**float** N=sc.nextFloat();

**double** CI;

CI = P \* Math.*pow*((1+R/100),(T\*N))-P;

System.***out***.println("Compound Interest is :"+CI);

}

}

**Perimeter :**

**package** monday;

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

**public** **class** Perimeter {

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

Scanner P1=**new** Scanner(System.***in***);

System.***out***.println("enter length and breadth");

**int** length=P1.nextInt();

**int** width=P1.nextInt();

**int** perimeter= 2\*(length+width);

System.***out***.println("the perimeter is"+ perimeter);

}

}

**Reverse :**

**package** monday;

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

**public** **class** Reverse {

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

Scanner p1=**new** Scanner(System.***in***);

System.***out***.print("Please enter an integer: ");

**int** number = p1.nextInt();

**int** reversedNumber = 0;

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

**int** digit = number % 10;

reversedNumber = reversedNumber \* 10 + digit;

number /= 10;

}

System.***out***.println("the reversed numbers are :"+reversedNumber);

p1.close();

}

}

**Power:**

**package** monday;

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

**public** **class** Power {

**public** **static** **int** power(**int** base, **int** exponent)

{

**int** result = 1;

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

{

result =result \* base;

}

**return** result;

}

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

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

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

**int** base = scanner.nextInt();

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

**int** exponent = scanner.nextInt();

**int** powerResult = *power*(base, exponent);

System.***out***.println(base + " to the power of " + exponent + " is: " + powerResult);

}

}

**Amstrong number :**

**package** monday;

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

**public** **class** Amstrong {

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

Scanner p1 = **new** Scanner(System.***in***);

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

**int** num1 = p1.nextInt();

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

**int** num2 = p1.nextInt();

**for**(**int** i=num1; i<=num2; i++) {

**int** b = i;

**int** digits = 0;

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

**int** e = b%10;

digits++;

b = b/10;

}

**int** a = i;

**int** result = 0;

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

**int** r = a%10;

result = result + (**int**)Math.*pow*(r, digits);

a = a/10;

}

**if**(result == i) {

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

}

}

}

}

**Neon number:**

**package** monday;

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

**public** **class** Neon {

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

Scanner p1 = **new** Scanner(System.***in***);

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

**int** num = p1.nextInt();

**int** a = num\*num;

**int** result = 0;

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

**int** r = a%10;

result = result + r;

a = a/10;

}

**if**(num == result) {

System.***out***.println(num + " is Neon Number");

}

**else** {

System.***out***.println(num + " is not a Neon Number");

}

}

}

**Factorial :**

**package** monday;

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

**public** **class** Factorial {

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

Scanner p1=**new** Scanner(System.***in***);

System.***out***.println("enter the number");

**int** n1=p1.nextInt();

**int** fact=1;

**for**(**int** i=1;i<=n1;i++) {

fact \*=i;

}

System.***out***.println("the factorial is"+ fact);

}

}

**Fabinnoci :**

**package** monday;

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

**public** **class** Fabonacci {

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

Scanner p1 = **new** Scanner(System.***in***);

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

**int** num = p1.nextInt();

**int** a = 0;

**int** b = 1;

**int** result = 0;

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

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

}

**else** {

**for**(**int** i=2; i<=num\*2; i++) {

**int** c = a+b;

a = b;

b = c;

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

result = result + c;

}

}

}

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

}

}

**Triangle \* :**

**package** monday;

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

**public** **class** Triangle {

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

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

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

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

**for**(**int** i=1; i<=num; i++) {

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

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

}

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

}

}

}

**Reverse Pyramid :**

**package** monday;

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

**public** **class** ReversePyramid {

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

Scanner p1 = **new** Scanner(System.***in***);

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

**int** num = p1.nextInt();

**int** a = 0;

**for**(**int** i=(num\*2)-1; i>=1; i=i-2) {

a++;

**for**(**int** k=1; k<a && i<(num\*2)-1; k++) {

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

}

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

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

}

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

}

}

}

**upper Star Triangle :**

**package** monday;

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

**public** **class** UpperStarTriangle {

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

Scanner p1 = **new** Scanner(System.***in***);

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

**int** num = p1.nextInt();

**for**(**int** i=1; i<=num; i++) {

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

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

}

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

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

}

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

}

}

}

**Diamond Shape :**

**package** monday;

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

**public** **class** DiamondShape {

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

Scanner p1 = **new** Scanner(System.***in***);

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

**int** num = p1.nextInt();

**int** a = 0;

**int** b = 0;

**for**(**int** m=1; m<=num\*2-2; m=m+2) {

b++;

**for**(**int** l=1; l<=num-b; l++) {

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

}

**for**(**int** n=1; n<=m; n++) {

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

}

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

}

**for**(**int** i=(num\*2)-1; i>=1; i=i-2) {

a++;

**for**(**int** k=1; k<a && i<(num\*2)-1; k++) {

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

}

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

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

}

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

}

}

}

**Square Pattern :**

**package** monday;

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

**public** **class** SquarePattern {

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

Scanner p1 = **new** Scanner(System.***in***);

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

**int** num = p1.nextInt();

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

**if**(i == 0 || i == num-1) {

**for**(**int** j=0; j<num; j++) {

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

}

}

**else** {

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

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

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

}

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

}

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

}

}

}