1)

**package** assignment;

**import** java.util.Scanner;

**public** **class** armstrong\_num {

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

**int** num,sum = 0,rem, n;

System.***out***.println("Enter any number ");

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

num = r.nextInt();

n= num;

**while**(num>0) {

rem = num%10;

sum = (rem\*rem\*rem) + sum;

num = num/10;

}

**if**(n== sum)

System.***out***.println("Armstrong number");

**else**

System.***out***.println("Not an armstrong");

}

}

Output:

Enter any number

153

Armstrong number

2)

**package** assignment;

**public** **class** all\_Armstrong\_nums {

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

**int** from = 100;

**int** to = 999;

**for** (**int** i =from; i<=to; i++) {

**int** n = i;

**int** sum = 0;

**while**(n>0) {

**int** rem = (n %10);

sum = (rem\*rem\*rem) + sum;

n= n/10;

}

**if**(sum == i) {

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

}

sum = 0;

}

}

}

Output =

153

370

371

407

3)

**package** assignment;

**public** **class** simple\_intrest {

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

**int** principle=5000;

**int** rate = 5;

**int** years = 5;

**float** inter=0;

**int** simpleInterest = (principle\*rate\*years)/100;

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

**float** CI = principle;

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

**float** si=(CI\*rate)/100;

inter = inter +si;

CI= CI+si;

}

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

}

}

Output:

1250

1381.4078

4)

**package** assignment;

**import** java.util.Scanner;

**public** **class** results {

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

**int** sub1,sub2,sub3;

System.***out***.println("Enter sub1 marks ");

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

sub1 = a.nextInt();

System.***out***.println("Enter sub2 marks ");

sub2 = a.nextInt();

System.***out***.println("Enter sub3 marks");

sub3 = a.nextInt();

**int** pass = 0;

**if** (sub1>60) {

pass++;

}

**if** (sub2>60) {

pass++;

}

**if** (sub3>60) {

pass++;

}

**if**(pass <2) {

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

}

**if**(pass ==2) {

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

}

**if**(pass ==3) {

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

}

}

}

Output:

Enter sub1 marks

65

Enter sub2 marks

88

Enter sub3 marks

61

Passed

5)

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

**double** income;

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

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

income = a.nextDouble();

**if** (income<= 180000) {

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

}

**else** **if**(income>180000 && income<= 300000) {

System.***out***.println((income\*10)/100);

}

**else** **if**(income>300000 && income<= 500000) {

System.***out***.println((income\*20)/100);

}

**else** **if**(income>500000 && income<= 1000000) {

System.***out***.println((income\*30)/100);

}

}

}

Output:

Enter Income

450000

90000.0

6)

**package** assignment;

**import** java.util.Scanner;

**public** **class** authentication {

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

String UserId = "Anil";

String Password = "Anil@3011";

System.***out***.println("Enter User Id ");

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

String enteredUserId = sc.nextLine();

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

String enteredPassword = sc.nextLine();

**if**(UserId.equals(enteredUserId)) {

**for** (**int** i = 0; i < 3; i++) {

**if**(Password.equals(enteredPassword)) {

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

System.***out***.println("Login successfull");

**break**;

} **else**{

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

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

System.***out***.println("Contact admin");

**break**;

}

System.***out***.println("wrong password enter again:");

enteredPassword = sc.nextLine();

}

}

}**else** {

System.***out***.println("wrong user name");

}

}

}

Password:

Enter User Id

Anil

Enter Password

Anil@3011

Login successfull

7) **package** assignment;

**import** java.util.Scanner;

**public** **class** findingValueInarray1 {

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

**int** arr[] = {5,12,14,6,78,19,1,23,26,35,37,7,52,86,47};

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

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

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

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

**if** (arr[i] == number) {

System.***out***.println(number + " is Present in Array");

**break**;

}**else** {

System.***out***.println(number + " is not present");

}

}

}

}

Output:

37 is Present in Array

9)

**package** assignment;

**public** **class** studentsMarks {

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

**int** stu1[] = {41,50,60};

**int** stu2[] = {54,80,65};

**int** stu3[] = {48,55,83};

**int** eachStudentTotal[] = **new** **int**[3];

**int** subStudentAve[] = **new** **int**[3];

**int** eachSubjectAvg[] = **new** **int**[3];

eachStudentTotal[0] = stu1[0]+stu1[1]+stu1[2];

eachStudentTotal[1] = stu2[0]+stu2[1]+stu2[2];

eachStudentTotal[2] = stu3[0]+stu3[1]+stu3[2];

subStudentAve[0]= eachStudentTotal[0]/3;

subStudentAve[1]= eachStudentTotal[1]/3;

subStudentAve[2]= eachStudentTotal[2]/3;

eachSubjectAvg[0] = (stu1[0]+stu2[0]+stu3[0])/3;

eachSubjectAvg[1] = (stu1[1]+stu2[1]+stu3[1])/3;

eachSubjectAvg[2] = (stu1[2]+stu2[2]+stu3[2])/3;

**for** (**int** i = 0; i < 3; i++) {

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

System.***out***.println("student "+(i+1)+" :");

System.***out***.println("Total : "+eachStudentTotal[i]);

System.***out***.println("Average : "+ subStudentAve[i]);

**for** (**int** j = 0; j < 3; j++) {

System.***out***.println("subject "+ (j+1) +" mark : "+ stu1[j] +

" Subject "+ (i+1) +" Avg :"+eachSubjectAvg[i]);

}

}

}

}

Output:

student 1 :

Total : 151

Average : 50

subject 1 mark : 41 Subject 1 Avg :47

subject 2 mark : 50 Subject 1 Avg :47

subject 3 mark : 60 Subject 1 Avg :47

student 2 :

Total : 199

Average : 66

subject 1 mark : 41 Subject 2 Avg :61

subject 2 mark : 50 Subject 2 Avg :61

subject 3 mark : 60 Subject 2 Avg :61

student 3 :

Total : 186

Average : 62

subject 1 mark : 41 Subject 3 Avg :69

subject 2 mark : 50 Subject 3 Avg :69

subject 3 mark : 60 Subject 3 Avg :69