1…Armstrong number check

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

**public** **class** Armstrong {

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

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

System.***out***.println("Enter the number you want to checkk /n");

**int** no = inn.nextInt();

**int** t1=no, len=0;

**int** t2=no,rem,arm=0;

**while**(t1!=0)

{

len++;

t1=t1/10;

}

**while**(t2!=0) {

**int** multi=1;

rem=t2%10;

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

{

multi =multi\*rem;

}

arm =arm+multi;

t2=t2/10;

}

**if**(no==arm)

{

System.***out***.println("yes it is a armstrong number");

}

**else**

{

System.***out***.println("NO");

}

}

}

2… 100 to 999 ..print all Armstrong numbers.

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

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

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

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

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

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

*check\_armstrong*(a,b);

}

**static** **void** check\_armstrong(**int** a, **int** b)

{

System.***out***.println("These are the armstrong number we have between "+ a +" and "+b);

**for**(**int** i=a;i<=b;i++)

{

**int** num =i;

**int** sum=0;

**while**(num>0)

{

**int** rem= num%10;

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

num=num/10;

}

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

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

}

}

}

3. Find CI and SI for user input values..

**package** newjava;

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

**import** java. lang. Math;

**public** **class** Sicheck {

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

**int** principal,time;

**float** Rate;

**float** SI,CI;

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

System.***out***.println("Enter the principal amount\n");

principal =give.nextInt();

System.***out***.println("Enter the Rate of intrest\n");

Rate = give.nextFloat();

System.***out***.println("Enter the time\n");

time = give.nextInt();

SI = principal \* time\* Rate;

CI = principal\* (1 + Rate) \*time - principal;

System.***out***.println("Here the Simple Intrest is .....-->>>"+SI);

System.***out***.println("Here the Compound Intrest is .....-->>>"+CI);

}

}

4. Result declare if every subject marks are more than 60 show pass. If any two has more than 60 show promoted. Else failed..

**public** **class** marksCheck {

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

**int** sub1,sub2,sub3,result;

**float** avrage;

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

System.***out***.println("Enter the marks of first subject");

sub1 = sc.nextInt();

System.***out***.println("Enter the marks of Second subject");

sub2 = sc.nextInt();

System.***out***.println("Enter the marks of third subject");

sub3 = sc.nextInt();

**if**(sub1>60 && sub2 >60 && sub3 >60)

{

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

}

**else** **if**((sub1>60|| sub1<60) && (sub2 >60 || sub2<60) && (sub3 >60 || sub3<60))

{

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

}

**else**

{

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

}

}

5. calculate tax percent as per salary range.

0-180000 – no tax

Salary B/W 180001-300000—10%

Salary B/W 300001-500000—20%

Salary B/W 500000-1000000—30%

**package** newjava;

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

**public** **class** FindIncometax {

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

**float** salary;

System.***out***.println("Enter your salary");

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

salary = sc.nextFloat();

**if**(salary<=180000)

{

System.***out***.println("NO tax required");

}

**else** **if** (salary>=180001 && salary<=300000)

{

System.***out***.println("You have to pay 10% of your salary as tax");

System.***out***.println("10% of your salary is "+0.1\*salary);

}

**else** **if**(salary>=300001 && salary<=500000)

{

System.***out***.println("you have to pay 20% of your salary in tax");

System.***out***.println("20% of your salary is "+0.2\*salary);

}

**else**

{

System.***out***.println("You have to pay 305 of your salary in tax");

System.***out***.println("30% of your salary is "+0.3\*salary);

}

}

}

6. Make a CUI, if username and password matches then show welcome with username. If it does not match till 3 attempt then show kindly contact with your admin.

**package** newjava;

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

**public** **class** CUIForm {

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

String username,password;

**int** attemp=3;

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

**while**(attemp>0)

{

System.***out***.println("Enter the user name");

username = sc.next();

System.***out***.println("Enter the password");

password = sc.next();

**if**(username.equals("sumit") && password.equals("admin123"))

{

System.***out***.println("welcome "+username);

**break**;

}

**else**

{

System.***out***.println("try again");

}

attemp--;

System.***out***.println("You have "+attemp+ " attempt left");

}

**if**(attemp==0)

{

System.***out***.println("You have exceed the login attempt,kindly contact to your admin");

}

}

}

7. Make an array of 15 element and take input from user and find that array contain that element or not…

**package** newjava;

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

**public** **class** FindnumberArray {

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

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

**int** find;

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

System.***out***.println("Enter the element you want to seacrch");

find = sc.nextInt();

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

{

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

System.***out***.println("Element "+ find +" found in the array at "+i +" position");

}

}

}

}

8. Sort above array using bubble sort--- (this is a driver code …)

**for** (**int** i = 0; i < arr.length-1; i++)

{

**for** (**int** j = 0; j < arr.length-i-1; j++) {

**if** (arr[j] > arr[j+1])

{

**int** temp = arr[j];

arr[j] = arr[j+1];

arr[j+1] = temp;

}

}

}

System.***out***.println("Sorted array is ---\n");

**for** (**int** i=0; i<arr.length-1; ++i)

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

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

9. Take marks of 3 subjects of 3 student from user and find average of 3 subjects per student.

**package** newjava;

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

**public** **class** StudentData {

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

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

**int** sub1,sub2,sub3;

**for**(**int** i=1;i<4;i++)

{

System.***out***.println("enter the marks of "+ i +" student");

System.***out***.println("Enter the marks of first subject");

sub1= sc.nextInt();

System.***out***.println("Enter the marks of second subject");

sub2= sc.nextInt();

System.***out***.println("Enter the marks of third subject");

sub3 = sc.nextInt();

*calculateAvg*(sub1,sub2,sub3);

}

}

**static** **void** calculateAvg(**int** a,**int** b,**int** c)

{

**float** avg = (a+b+c)/3;

System.***out***.println("Average is -->"+ avg);

}

}