

choice.java

```
package choice;

import java.util.Scanner;

public class choice {

    /**
     * @param args
     */
    public static void main(String[] args) {
        int a,b,ans,choicel,k;
        do{
            System.out.println("enter your\n 1:+\n 2:-\n 3:*\n 4:/\n 5: armstrong
no\n 6:factorial no\n 7:power");

            Scanner sc=new Scanner(System.in);
            choicel=sc.nextInt();
            switch(choicel)
            {

                case 1:
                    System.out.println("enter 2 number");
                    a=sc.nextInt();
                    b=sc.nextInt();
                    ans=a+b;
                    System.out.println("addition="+ans);
                    break;

                case 2:
                    System.out.println("enter 2 number");
                    a=sc.nextInt();
                    b=sc.nextInt();
                    ans=a-b;
                    System.out.println("sub="+ans);
                    break;

                case 3:
                    System.out.println("enter 2 number");
                    a=sc.nextInt();
                    b=sc.nextInt();
                    ans=a*b;
                    System.out.println("mul="+ans);
                    break;

                case 4:
                    System.out.println("enter 2 number");
                    a=sc.nextInt();
                    b=sc.nextInt();
                    ans=a/b;
                    System.out.println("div="+ans);
                    break;

                case 5:
                    System.out.println("enter number");
                    a=sc.nextInt();
                    int number,temp,total=0;
                    number=a;
                    while(number>0)
```

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```
{
    temp= number%10;
    temp=(int)Math.pow(temp, 3);
    //type casting(int) , function math.pow
    total=total+temp;
    number=number/10;

}
System.out.println(total);
if((a==total))
{
    System.out.println("armstrong number");
}
else{
    System.out.println("not a armstrong number");
}
break;

case 6:

    System.out.println("enter number");
    a=sc.nextInt();
    b=1;
    for(int i=1;i<=a;++i){
        b=b*i;
    }
    System.out.println("factorial:"+b);
    break;

case 7:
    System.out.println("enter two number");
    double c=sc.nextInt();
    double d=sc.nextInt();
    System.out.println(Math.pow(c,d));
    break;
}
System.out.println("do you want to continue(0:no,1:yes)");
k=sc.nextInt();
}while(k==1);
}
```

}