```
package OP;

import java.util.Scanner;

public class Test {


    public Boolean Auth(String pass) {
    if(pass== "JAVA") {
        System.out.println("pass correct");
        return true;
    }
    else {
        System.out.println("pass wrong");
        return false;
    }
    }
    public static void main(String[] args) {
        Test t=new Test();
        //t.Auth("JAVA");
       boolean res = t.Auth("JAVA");
```

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        System.out.println(res);

        while(res==true) {
            System.out.println("jump to the
menu card");
            break;
        }

            Scanner S=new Scanner(System.in) ;
            int n, fact=1;
         System.out.println("enter no of find
factorial");
              n = S.nextInt();
          while(n>0) {
             fact= fact*n;
             n=n-1;
           }
             System.out.println("factorial"+ fact);

             int term,a=0,b=1,c;
             System.out.println("enter no of find
```

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fibonacci ");
            term= S.nextInt();
            for(int j = 1;j<=term;j++) {
                System.out.println(a+" ");
                c=a+b;
                a=b;
                b=c;
            }

            System.out.println("enter no of find
prime no");
            int num=S.nextInt();
        int Count =0;
            for(int u=1;u<=num;u++) {
                if(num % u == 0) {
                    Count++;
                }
        }
         if(Count==2) {
                System.out.println("prime no");
         }
```

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        else {
            System.out.println("not a prime no");
       }
        int p,r,sum=0;
        System.out.println("enter no of sum
of digit");
        p=S.nextInt();
        while(p>0) {
            r=p%10;
            sum=sum+r;
            p= p/10;
        }
        System.out.println("Sum of Digits" +
sum);

        int f,h;
        System.out.println("enter the reverse
num");
        f=S.nextInt();
        while(f>0) {
           h= f%10;
```

```
            System.out.println("revers order" +
h);
            f=f/10;
        }
        System.out.println("press 1 for
factorial");
        System.out.println("press 2 for
fibonacci");
        System.out.println("press 3 for prime
number");
        System.out.println("press 4 for sum
of Digit");
        System.out.println("press 5 for
reverse number");
        int choice=S.nextInt();
        switch(choice) {
        case 1:System.out.println(" factorial
value");
              break;
        case 2:System.out.println("fibonacci
value");
```

```
            break;
        case 3 : System.out.println("prime
number value");
            break;
        case 4 : System.out.println("sum Digit
value");
            break;
        case 5 : System.out.println("reverse
number value");
            break;

        }
    }
}
```