

```
1 /*a e o f r n
2 a=armstrong number
3 e =even
4 o =odd
5 f =factorial
6 r =reverse
7 n =neon number
8
9 * */
10
11 package com.geetus;
12
13 import java.util.Scanner;
14
15 public class Switchloops {
16
17     public static void main(String[] args) {
18
19         Scanner sc = new Scanner(System.in);
20
21         System.out.println("Enter any alphabet");
22         String alpha = sc.next();
23
24         System.out.println("Enter Any Number:");
25         int num = sc.nextInt();
26
27         switch (alpha) {
28
29
30
31             case "a":
32
33                 int rem, sum = 0;
34                 int temp = num;
35
36                 while (num > 0) {
37                     rem = num % 10;
38                     sum = sum + (rem * rem * rem);
39                     num /= 10;
40                 }
41
42                 if (sum == temp) {
43                     System.out.println("Your number is an Armstrong number");
44                 } else {
45                     System.out.println("Not an Armstrong number");
46                 }
47                 break;
48
49             case "e":
50                 System.out.println(" We Are Checking Your Number Is Even Or Odd");
51                 if (num%2==0) {
52                     System.out.println("Even Number");
53                 }
54                 else {
55                     System.out.println("Odd Number");
56                 }
57                 break;
```

```
58
59     case "f":
60         int fact=1;
61         for (int i=1;i<=num;i++) {
62             fact*=i;
63         }
64         System.out.println("Factorial Of "+num+" is: "+fact);
65
66         break;
67
68     case "r":
69         int remender, summ=0;
70
71         while (num>0) {
72             remender=num%10;
73             summ=summ*10+remender;
74             num/=10;
75         }
76         System.out.println("Reverse Version Of this "+num+"is : "+summ);
77         break;
78
79     case "n":
80         int sq, add=0, tempo=num;
81         sq=num*num;
82         while (sq>0) {
83
84
85             add=add+sq%10;
86             sq/=10;
87         }
88         if (tempo==add) {
89             System.out.println("It is a Neon Number");
90         }
91         else {
92             System.out.println("Not Neon Number");
93         }
94         break;
95
96     default:
97         System.out.println("Invalid option");
98 }
99
100 sc.close();
101 }
102 }
103 }
```