```
import java.util.*;
import java.io.*;
public class question74
    boolean flag=false;
    public void input()
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter number:");
        n=sc.nextInt();
    public void calculate()
        int square=0;
        int digit=0;
        for(int i=0;i<100;i++)
            do{
                digit=n%10;
                square=square+digit*digit;
                n=n/10;
            }while(n!=0);
            n=square;
            square=0;
            if(n==1)
                flag=true;
                break;
    public void display()
        if(flag==true)
            System.out.println("Happy number");
        else
            System.out.println("Unhappy number");
    public static void main(String[] args)
        question74 ob=new question74();
        ob.input();
        ob.calculate();
        ob.display();
```