HAPPY NUMBER:

mport java.util.\*;

interface yes{

int checkHappyNumber(int number);

}

class Happy implements yes {

public int checkHappyNumber(int number)

{

int rem = 0, sum = 0;

while(number > 0)

{

rem = number %10;

sum = sum+(rem\*rem);

number = number/10;

}

return sum;

}

}

public class happyno{

public static void main(String[] args)

{

Happy ob=new Happy();

Scanner sc = new Scanner (System.in);

System.out.print("Enter a non-zero Positive Number:");

int number = sc.nextInt( );

int result = number;

while (result != 1 && result != 4)

{

result = ob.checkHappyNumber(result);

}

if (result ==1)

{

System.out.println ("It is a Happy Number");

}

else

{

System.out.println (" It is not a Happy Number");

}

}

}