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MCA 2A

Question 1

one.txt

```
class shalini
{
    public static void main(String args[])
    {
        int x = 100;

        // Exit when x becomes greater than 550
        while (x <= 550)
        {
            System.out.println("Value of x:" + x);

            // Increment the value of x for
            // next iteration
            x++;
        }
    }
}
```

two.txt

```
import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;

public class ReadFile {
    public static void main(String[] args) {
        try {
```

```

File myObj = new File("one.txt");
Scanner myReader = new Scanner(myObj);
while (myReader.hasNextLine()) {
    String data = myReader.nextLine();
    System.out.println(data);
}
myReader.close();
} catch (FileNotFoundException e) {
    System.out.println("An error occurred.");
    e.printStackTrace();
}

int num, myObj, temp, total = 0;
num = scanner.nextInt();
scanner.close();
myObj = num;

for( ;myObj!=0;myObj /= 10)
{
    temp = myObj % 10;
    total = total + temp*temp*temp;
}

if(total == num)
    System.out.println(num + " is an Armstrong number");
}
}

```

Output:

153, 370, 371,407 is a Armstrong number.

## Question 2

```
abstract class Calculator
{
    public abstract int sumOfTwo(int n1, int n2);
    public abstract int sumOfThree(int n1, int n2, int n3);
    public void disp( ){
        System.out.println("Method of class Sum"); // output Method of class Sum (3)
    }
}

class CalPower extends Calculator
{
    public int sumOfTwo(int num1, int num2)
    {
        return num1+num2;
    }
    power int sumOfThree(int num1, int num2, int num3)
    {
        return num1+num2+num3;
    }
    public static void main(String args[ ]){
        Sum obj = new DemoAbstract1( );
        System.out.println(obj.sumOfTwo(2, 4));
        System.out.println(obj.sumOfThree(2, 4, 16));
        obj.disp( );
    }
}
```