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Q1
```java
import java.util.Scanner;
import java.io.*;

public class Student{
public static void main(String[] args){
Scanner in=new Scanner(System.in);
int i;
for(i=1;i<=5;i++)
{
int prac_mark,theory_mark;
System.out.println("\nStudent "+i);
System.out.println("Enter the lab and theory marks: ");
prac_mark=in.nextInt();
theory_mark=in.nextInt();
int total_marks;
total_marks=prac_mark+theory_mark;
if(prac_mark>=15 && theory_mark>=15)
{
System.out.println("PASS");
if(total_marks==39)
{
total_marks=40;
}
System.out.println("Total marks="+total_marks);
}
else if(total_marks<40)
{
System.out.println("FAIL");
}
else if(prac_mark<15 || theory_mark<15)
{
System.out.println("TECHNICAL FAIL");
System.out.println("Total marks="+total_marks);
}
else
{
System.out.println("FAIL");
}
}
}
```

```
piratepanda@SastaPC:~/Documents/javalab/week2$ java 1.java

Student 1
Enter the lab and theory marks:
20 40
PASS
Total marks=60

Student 2
Enter the lab and theory marks:

```

```
}
```

Q2

```
package first;
import java.util.Scanner;

public class res{
public static void main(String args[]){
Scanner in = new Scanner(System.in);
System.out.println("Enter length");
double length = in.nextDouble();
System.out.println("Enter diameter");
double dia = in.nextDouble();
System.out.println("Enter resistivity");
double r = in.nextDouble();
double rn = r*(4*length/3.14*dia*dia);
System.out.println("The resistance is : "+rn);
}
}
```

.

```
piratepanda@SastaPC:~/Documents/javalab/week2$ java 2.java
Enter length
2
Enter diameter
3
Enter resistivity
6
The resistance is : 137.5796178343949
piratepanda@SastaPC:~/Documents/javalab/week2$
```

Q3.

```
import java.util.Scanner;
public class Main
{
public static void main(String[] args) {
int sal;
Scanner in = new Scanner(System.in);
System.out.println("Enter the salary");
sal = in.nextInt();
for (int i=1; i<30; i++)
{
sal=2*sal;
}
System.out.println(sal);
}
}
```

.

```
piratepanda@SastaPC:~/Documents/javalab/week2$ java 3.java
Enter the salary
25
536870912
```

Q4.

```java
import java.util.Scanner;

public class GoldSilver{
public static void main(String[] args){
Scanner input = new Scanner(System.in);

System.out.print("Enter the number of customers: ");
int customers = input.nextInt();
int goldCoin = 0, silverCoin = 0;
for (int i=1;i<=customers;i++){

System.out.print("Enter the name of customer"+i+": ");
String Name = input.next();

System.out.print("Enter the customer number"+i+": ");
int customerNumber = input.nextInt();

if ((customerNumber%250==0)){
System.out.println(Name+" Gold");
goldCoin++;
}
else if (customerNumber%100==0){
System.out.println(Name+" Silver");
silverCoin++;
}
else{
System.out.println(Name+", Sorry no coins for you!!!");
}

}
System.out.println("Number of gold coins: "+goldCoin);
System.out.println("Number of silver coins: "+silverCoin);
}
}
```

```
piratepanda@SastaPC:~/Documents/javalab/week2$ java 4.java
Enter the number of customers: 2
Enter the name of customer1: Anupam
Enter the customer number1: 23
Anupam, Sorry no coins for you!!!
Enter the name of customer2: Aradhana
Enter the customer number2: 50
Aradhana, Sorry no coins for you!!!
Number of gold coins: 0
Number of silver coins: 0
piratepanda@SastaPC:~/Documents/javalab/week2$
```