1) Output:

~~3) Pseo~~ Enter two nos:
2
4
sum: 6
difference: -2

2) Output:

Enter two nos:
5
7
product: 35

3) Program that prints all real solutions to quadratic equation $ax^2+bx+c=0$. Read a, b, c & use quadratic formula. If the discriminate b^2-4ac is negative, display a message stating there are no real solutions.

```
import java.util.*;
class Quadratic
{
public static void main (String args[])
{
double a, b, c, d, r1, r2;
System.out.println ("Enter coefficients a, b, c");
Scanner sc = new Scanner (System.in);
```

```
a = sc.nextDouble();
b = sc.nextDouble();
c = sc.nextDouble();

d = b*b - 4*a*c;
if (d>0.0)
{
double r1 = (-b + Math.pow(d,0.5)) / (2.0*a);
double r2 = (-b - Math.pow(d,0.5)) / (2.0*a);
System.out.println("Root are " + r1 + "and"+r2);
}
else if (d==0.0)
{
double r1 = -b / (2.0*a);
System.out.println("Root is :" +r1);
}
else
{
System.out.println("No real solutions");
}
}
}
```

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Output:

```
Enter coefficients:
3
4
6
No real coefficients
```

```
a = sc.nextDouble();
b = sc.nextDouble();
c = sc.nextDouble();

d = b*b - 4*a*c;
if (d>0.0)
{
double r1 = (-b + Math.pow(d,0.5)) / (2.0*a);
double r2 = (-b - Math.pow(d,0.5)) / (2.0*a);
System.out.println("Root are " + r1 + "and"+r2);
}
else if (d==0.0)
{
double r1 = -b / (2.0*a);
System.out.println("Root is :" +r1);
}
else
{
System.out.println("No real solutions");
}
}
}
```

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Output:

Enter coefficients:
3
4
6
No real coefficients

o/p Scan
G1
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