

Punjab University College of Information Technology

Course: Web Engineering

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1. What is wrong with the program? Correct it?

```
import java.util.*;
import java.lang.*;
class A
{
    private void main(String [] str)
    {
        system.println("Hello to JAVA");
    }
}
```

2. Do some practice about typecasting

In Java, type casting is classified into two types,

- **Widening type casting/ automatic typecasting**

Automatic Type casting take place when,

- 1.the two types are compatible
- 2.the target type is larger than the source type

- **Narrowing type casting/ explicit**

when you are assigning a larger type value to a variable of smaller type, then you need to perform explicit type casting.

A. Take a number in integer and typecast it in long and float and show the output?

B. Take a number in double and typecast it in int and long?

3. Write a program that can find the sum and average of all numbers entered by user. (User should enter -999 to terminate the input). The program should also displays the Largest and Smallest number among these numbers.

4. Write a program in java that saves an integral vale in an Integer variable and Display whether it is positive or negative.

5. List out the Armstrong number ranging from 0-1000? An Armstrong number is the one that equals the sum of its digits raised to the power of the number of digits in that number which is to be checked. e-g $153 = 1^3 + 5^3 + 3^3$ where 153 is the Armstrong number according to mentioned criteria.