

Java Examples on Type Casting

1. Java Program to Add two numbers

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.IOException;

public class main
{
    public static void main(String args[]) throws IOException
    {
        BufferedReader reader=new BufferedReader(new
InputStreamReader(System.in));
        System.out.print("Enter two numbers:");

        int a=Integer.parseInt(reader.readLine());
        int b=Integer.parseInt(reader.readLine());

        System.out.println("Addition="+(a+b));
    }
}
```

Output:

```
Enter two numbers:12
13
Addition=25
```

2. Java Program Subtract two numbers

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.IOException;

public class main
{
    public static void main(String args[]) throws IOException
    {
        BufferedReader reader=new BufferedReader(new
InputStreamReader(System.in));
```

```

        System.out.print("Enter two numbers:");

        int a=Integer.parseInt(reader.readLine());
        int b=Integer.parseInt(reader.readLine());

        System.out.println("Subtraction="+a-b);
    }
}

```

Output:

```

Enter two numbers:13
2
Subtraction=11

```

3. Java Program to Multiply two numbers

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.IOException;

public class main
{
    public static void main(String args[]) throws IOException
    {
        BufferedReader reader=new BufferedReader(new
        InputStreamReader(System.in));
        System.out.print("Enter two numbers:");

        int a=Integer.parseInt(reader.readLine());
        int b=Integer.parseInt(reader.readLine());

        System.out.println("Multiply="+a*b);
    }
}

```

Output:

```

Enter two numbers:2
3
Multiply=6

```

4. Java Program to Check whether a number is Even or Odd

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.IOException;

public class main
{
    public static void main(String args[]) throws IOException
    {
        BufferedReader reader=new BufferedReader(new
InputStreamReader(System.in));

        System.out.print("Enter a number:");
        float a=Integer.parseInt(reader.readLine());

        if(a%2==0)
        {
            System.out.println("Number is even");
        }
        else
        {
            System.out.println("Number is odd");
        }
    }
}
```

Output:

```
Enter a number:12
Number is even
```

5. Check whether a character is a Vowel or Consonant

```
import java.util.Scanner;

public class SimpleCharInput
{

    public static void main(String[] args)
    {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a character: ");
        char ch = scanner.next().charAt(0);
```

```

        if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u')
        {
            System.out.println(ch + " is a vowel.");
        }
        else
        {
            System.out.println(ch + " is a consonant.");
        }
    }
}

```

Output:

Enter a character: a
a is a vowel.

6. Java Program to find Average of Two numbers

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.IOException;

public class main
{
    public static void main(String args[]) throws IOException
    {
        BufferedReader reader=new BufferedReader(new
InputStreamReader(System.in));
        System.out.print("Enter two numbers:");

        float a=Integer.parseInt(reader.readLine());
        float b=Integer.parseInt(reader.readLine());

        System.out.println("Average="+((a+b)/2));
    }
}

```

Output:

Enter two numbers:3
6
Average=4.5

7. Java Program to find Average of Three numbers

```

import java.io.BufferedReader;

```

```

import java.io.InputStreamReader;
import java.io.IOException;

public class main
{
    public static void main(String args[]) throws IOException
    {
        BufferedReader reader=new BufferedReader(new
InputStreamReader(System.in));
        System.out.print("Enter two numbers:");

        float a=Integer.parseInt(reader.readLine());
        float b=Integer.parseInt(reader.readLine());
        float c=Integer.parseInt(reader.readLine());

        System.out.println("Average="+"((a+b+c)/3));
    }
}

```

Output:

```

Enter two numbers:2
4
5
Average=3.6666667

```

8. Java Program to find Area of Square

```

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.IOException;

public class main
{
    public static void main(String args[]) throws IOException
    {
        BufferedReader reader=new BufferedReader(new
InputStreamReader(System.in));

        System.out.print("Enter size of side of square:");
        float a=Integer.parseInt(reader.readLine());

        System.out.println("Area of Square="+(a*a));
    }
}

```

Output:

Enter size of side of square:4
Area of Square=16.0

9. Java Program to Calculate Simple Interest

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.IOException;

public class main
{
    public static void main(String args[]) throws IOException
    {
        BufferedReader reader=new BufferedReader(new
        InputStreamReader(System.in));

        System.out.print("Enter the Principle:");
        float p=Integer.parseInt(reader.readLine());

        System.out.print("Enter rate of Interest:");
        float r=Integer.parseInt(reader.readLine());

        System.out.print("Enter no. of Years:");
        float t=Integer.parseInt(reader.readLine());

        System.out.println("Simple Interest="+"((p*r*t)/100));
    }
}
```

Output:

Enter the Principle:10000
Enter rate of Interest:9
Enter no. of Years:5
Simple Interest=4500.0

10. Java Program to Calculate Compound Interest

```
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.IOException;
import static java.lang.Math.pow;
```

```
public class main
{
    public static void main(String args[]) throws IOException
    {
        BufferedReader reader=new BufferedReader(new
        InputStreamReader(System.in));

        System.out.print("Enter the Principle:");
        float p=Integer.parseInt(reader.readLine());

        System.out.print("Enter rate of Interest:");
        float r=Integer.parseInt(reader.readLine());

        System.out.print("Enter no. of Years:");
        float t=Integer.parseInt(reader.readLine());

        System.out.println("Compound Interest="+((p*Math.pow((1+(r/100)),t))-p));
    }
}
```

Output:

```
Enter the Principle:10000
Enter rate of Interest:3
Enter no. of Years:4
Compound Interest=1255.0868494732422
```