



Primenjeno programiranje

Java i NetBeans IDE 7.0 – vežba 6

Zadatak 1. Napisati program koji izračunava sumu:

$$\frac{1}{2} + \frac{2}{3} + \frac{3}{4} + \dots + \frac{n}{n+1}$$

- a) Pomoću *for* petlje,
- b) Pomoću *while* petlje,
- c) Pomoću *do while* petlje

a)

```
import java.util.Scanner;
public class Suma {

    public static void main(String[] args) {
        int n;
        double suma = 0;

        Scanner ulaz = new Scanner(System.in);
        System.out.print("Unesite broj n: ");
        n = ulaz.nextInt();
        for (int i = 1; i <= n; i++) {
            suma = suma + (double)i/(i+1);
        }
        System.out.println("Vrednost izraza je: " + suma);
    }
}
```

b)

```
import java.util.Scanner;
public class Suma {

    public static void main(String[] args) {
        int n;
        double suma = 0;

        Scanner ulaz = new Scanner(System.in);
        System.out.print("Unesite broj n: ");
        n = ulaz.nextInt();

        int i = 1;
        while (i<=n){
```

```

        suma = suma + (double)i/(i+1);
        i++;
    }

    System.out.println("Vrednost izraza je: " + suma);
}

```

c)

```

import java.util.Scanner;
public class Suma {

    public static void main(String[] args) {
        int n;
        double suma = 0;

        Scanner ulaz = new Scanner(System.in);
        System.out.print("Unesite broj n: ");
        n = ulaz.nextInt();

        int i = 1;
        do{
            suma = suma + (double)i/(i+1);
            i++;
        }while (i<=n);

        System.out.println("Vrednost izraza je: " + suma);
    }
}

```