

Programski jezik Java

Naredba `while`

- Naredba `while` je jedna od **naredbi ponavljanja (petlje)**
- Prevedeno na srpski, naredba `while` kaže: “dokle god je tačan dati logički izraz, ponavljaj sledeće naredbe”
- Važno je da naredbe u “telu” `while` petlje utiču na izračunavanje logičkog izraza, u protivnom izvršavanje programa može da uđe u “beskonačnu petlju”
- Oblik:

```
while (izraz) {  
    naredba;  
    ...  
    naredba;  
}
```

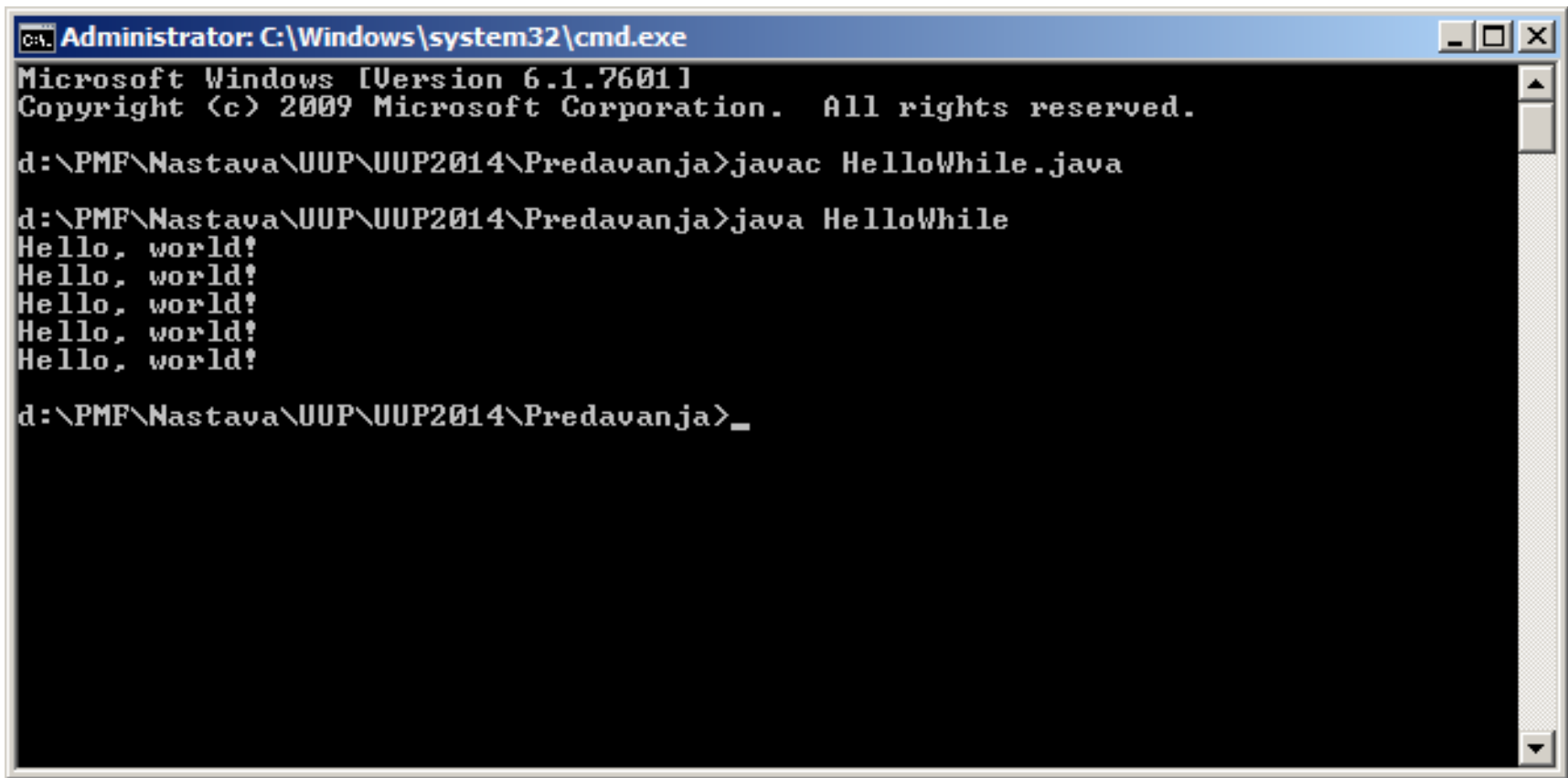
Naredba while

- Primer:

```
class HelloWorld {  
    public static void main(String[] arguments) {  
        int i = 1;  
        while (i <= 5) {  
            System.out.println("Hello, world!");  
            i = i + 1;  
        }  
    }  
}
```

Naredba while

- Izlaz:

A screenshot of a Windows command prompt window titled "Administrator: C:\Windows\system32\cmd.exe". The window shows the following text:

```
Microsoft Windows [Version 6.1.7601]
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d:\PMF\Nastava\UUP\UUP2014\Predavanja>javac HelloWorld.java

d:\PMF\Nastava\UUP\UUP2014\Predavanja>java HelloWorld
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!

d:\PMF\Nastava\UUP\UUP2014\Predavanja>_
```

Naredba while

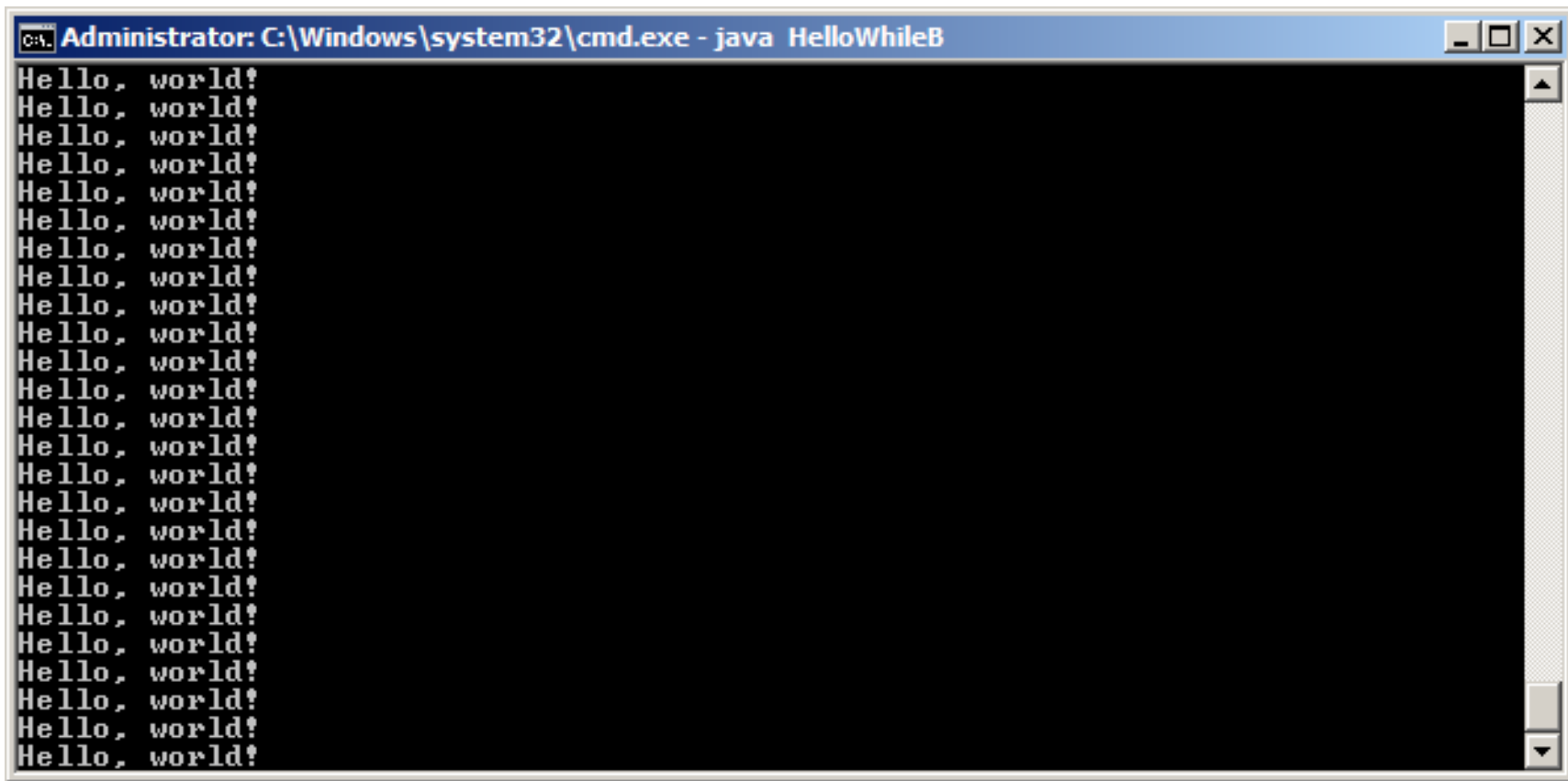
- Pitanje: kako bi izgledao izlaz sledećeg programa?

```
class HelloWorld {  
    public static void main(String[] arguments) {  
        int i = 1;  
        while (i <= 5) {  
            System.out.println("Hello, world!");  
        }  
    }  
}
```

Naredba while

- Izgledao bi ovako:

(Ctrl+C prekida izvršavanje)



```
Administrator: C:\Windows\system32\cmd.exe - java HelloWhileB
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
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Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
Hello, world!
```

Naredba do-while

- Naredba `do-while` je slična naredbi `while`, s tom razlikom što se logički izraz zadaje na kraju naredbe, što znači da će se naredbe u telu `do-while` petlje izvršiti bar jednom

- Oblik:

```
do {  
    naredba;  
    ...  
    naredba;  
} while (izraz);
```

Naredba `for`

- Naredba `for` je preostala naredba ponavljanja
- Prevedeno na srpski, naredba `for` kaže: “za opisane vrednosti brojačke promenljive, ponavljaj sledeće naredbe”
- Oblik:

```
for (pocetak; izraz; korak) {  
    naredba;  
    ...  
    naredba;  
}
```

- `pocetak`: inicijalizacija brojačke promenljive (može i deklaracija sa inicijalizacijom)
- `izraz`: provera da li je brojačka promenljiva dostigla neku vrednost
- `korak`: ažuriranje brojačke promenljive

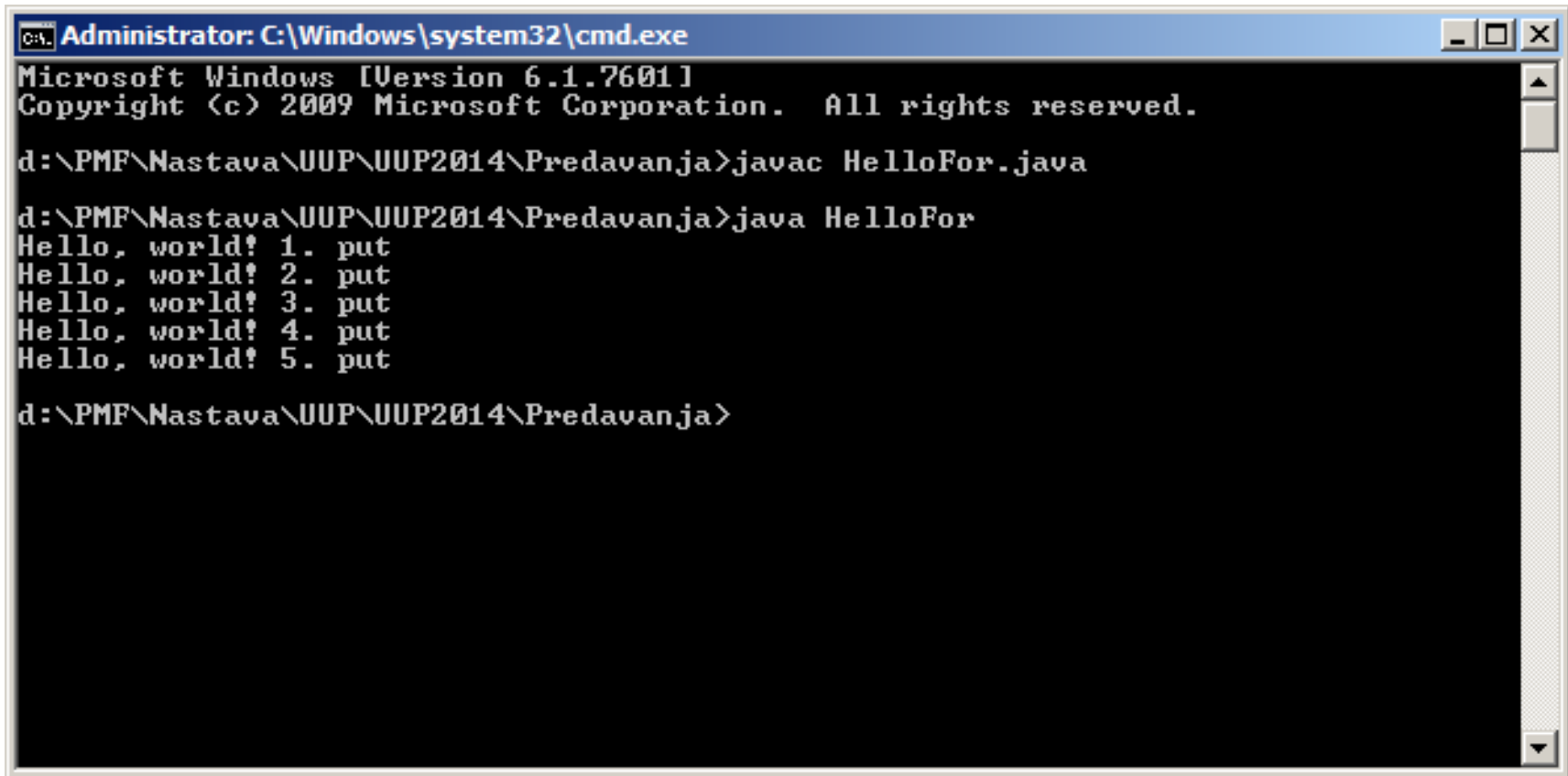
Naredba for

- Primer:

```
class HelloFor {  
    public static void main(String[] arguments) {  
        for (int i = 1; i <= 5; i = i + 1) {  
            System.out.println("Hello, world! " + i + ". put");  
        }  
    }  
}
```

Naredba for

- Izlaz:

A screenshot of a Windows command prompt window titled "Administrator: C:\Windows\system32\cmd.exe". The window shows the execution of a Java program. The prompt is at the directory "d:\PMF\Nastava\UUP\UUP2014\Predavanja". The user enters "javac HelloFor.java" and then "java HelloFor". The output of the program is displayed as five lines: "Hello, world! 1. put", "Hello, world! 2. put", "Hello, world! 3. put", "Hello, world! 4. put", and "Hello, world! 5. put". The prompt returns to "d:\PMF\Nastava\UUP\UUP2014\Predavanja>".

```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
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d:\PMF\Nastava\UUP\UUP2014\Predavanja>javac HelloFor.java

d:\PMF\Nastava\UUP\UUP2014\Predavanja>java HelloFor
Hello, world! 1. put
Hello, world! 2. put
Hello, world! 3. put
Hello, world! 4. put
Hello, world! 5. put

d:\PMF\Nastava\UUP\UUP2014\Predavanja>
```