

# Programmkonstruktion - Principles of Computing

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written examination, 90 minutes, 72 Points

First name	
Sure name	
Matr. number	
Points	
Mark	

1. Write the binary number 10010010 in decimal notation. (Points: 4)
  
2. We have the following variables within a JAVA-program: hour, days, months, years (containing values already entered) which describe some time interval, write an expression, that assigns the number of hours to the variable lengthOfTime. (Points: 8)

3. This JAVA code write something on the screen, give the result: (Points: 6)

```
public static void numberGame ()
{
    int n=0;
    do{
        n++;
        System.out.print (n+"1");
    }while(n < 5);
}
```



8. The following part of a JAVA program processes nodes, there are three errors, please mark them and give the correction. List, LinkedList and orderedInsert are defines elsewhere (Points: 6)

```
public class ListInsert {  
  
    public static void main(String[]) {  
        List list = new LinkedList();  
        for (int i == 0; i < args.length; i++)  
            orderedInsert(list, args[i])  
        System.out.println(list);  
    }  
}
```

9. What is the task of a Javacompiler, why is it fundamental for platform independent programming. (Points: 5)

10. Applets have no main methode, how do you invoke activities, give an example? (Points: 5)

11. The displayBanner applet needs a working space of 468 by 60 Pixel within the browser. Write the HTML code. If the browser can not display an applet, it should display the text "Sorry, no JAVA available". (Points: 10)