

09/10/2017

Programming Languages Specifications for Assignments

Submission

- Assignments submitted after submission deadline (at most 2 days late) will be evaluated over 50. Do not send any e-mail 3 days after submission deadline.
- Collaboration on any assignment is strictly prohibited. Submitted assignments are automatically checked for similarities. Infractions will be given a zero for the entire assignment.
- Assignments must be submitted by e-mail. Every student must send his/her assignment to the following e-mail address.

amac@yildiz.edu.tr

- **Subject of the e-mail** must contain course name, Assignment # and student number in specified format written below;

Example Subject :

BLM2541_Assignment_1_15011035

Content

1. An archive (zip, rar) file which contains only **ONE report file** and **ONE or MORE source files**. The question number indicates the number of source files.

2. The report file should include

- **1. Question** - A brief description for each question
- **2. Solution** - An explanation for each solution
- **3. Analysis** - Numerous (at least 5, if necessary more) screenshots to show that your program runs correctly
- **4. Source Code** - The source code (use Notepad++ or the equivalent to have colored codes)

About Source Code

The source file must include **comments** which explain the code.

The code should be **well-designed**.

About Comments

- Important algorithmic parts must be commented.
- You must write a heading comment describing you and the program
- In addition, you must write doxygen compatible comments for projects. Meaning that every function must have a comment on it starting with `/**` ending with `*/` having a brief description,
 - `@param` statements for every parameter and `@return` statement for the return values

****see example codes at the bottom**** Writing these comments improves readability of the code and enables to use document generation software (e.g. doxygen) for automatically generating documentation of the code.

If you want to learn further:

[information about comments](#)

[information about documentation comments](#)

[information about doxygen and doxygen comments](#)

[doxygen website](#)

3. The name of the submitted files must contain student number and question number. (q1 refers to "Question 1")

Example: zip/rar filename : 15011035.zip

The zip/rar should contain

pdf filename:	15011035.pdf
Source filename:	15011035_q1.c
Source filename:	15011035_q2.c

ASSIGNMENT EVALUATION CRITERIA

- Format
- Code
 - Readability (variable names, code organization)
 - Reliability (correctness of the code)
 - Effective use of the C Language
 - Modularity (effective use of functions)
- Analysis (Screenshots of different cases)
- Report Content and Organization

ATTENTION

- Do not use double filename extensions. For example, xxx.zip.rar, xxx.c.exe, ... etc. Otherwise your mail will be blocked by spam filter and your assignment will not be evaluated.
- Assignments that don't comply with submission rules will be evaluated over at most 80. It can decrease up to 50.

EXAMPLE CODE-I

```
/**
@file
BBG2 spring2013 assignment 1.

A program that checks whether the number
is even or odd.
It prints 1 for odd numbers, 0 for even numbers

@author

Name:                Bart Simpson

Student no:          08011001

Date:                11/02/2013

E-Mail:              bart_simpson@gmail.com

Compiler used:       GCC

IDE:                  CodeBlocks

Operating System     Windows 7
*/

#include<stdio.h>

/**
Main function. Reads the number and prints the result
*/

int main() {

    int number,result;
    // reading the number:
    scanf("%d",&number);
    // checking whether the number is odd or even:
    if((number%2)==0){
        result=0;
    }
    else{
        result=1;
    }
    // output the result:
    printf("%d\n",result);

    return 0;
}
```

EXAMPLE CODE-II

```
/**
@file
BBG2 spring2013 assignment3.

A program that adds and multiplies two given numbers.

@author

Name:                Homer Simpson
Student no:          08011002
Date:                11/04/2012
E-Mail:              homer.simpson@yahoo.com
Compiler used:       GCC
IDE:                 Netbeans 7.2.1
Operating System     Linux
*/

#include<stdio.h>

/**
function which gives the sum of two integers.
@param a first number
@param b second number
@return sum of a and b
*/
int add(int a, int b){
    int c;
    c=a+b;
    return c;
}

/**
function which multiplies two integers.
@param a first number
@param b second number
@return multiplication of a and b
*/
int multiply(int a,int b){
    int c;
    c=a*b;
    return c;
}

/**
Main function. Reads the numbers from the user.
Then it outputs the sum and multiplication of two inputs.
*/
int main(){

    int a,b,sum,result;

    printf("Enter two numbers");

    scanf("%d",&a);
    scanf("%d",&b);

    // call add function to sum the given two numbers
    sum = add(a,b);

    // call multiply function to multiply the given two numbers
    result multiply(a,b);
```

```
// output for sum operation
printf("The result of addition is = %d", sum);

// output for multiplication process
printf("The result of multiplication is = %d",result);

anykey();
return 0;
```

```
}
```