

## LAB 01 (Introduction)

وہی تو ہے جس نے سورج کو روشن اور چاند کو منور بنایا اور چاند کی منزلیں مقرر کیں تاکہ تم برسوں کا شمار اور (کاموں کا) حساب معلوم کرو۔ یہ (سب کچھ) خدا نے تدبیر سے پیدا کیا ہے۔ سمجھنے والوں کے لیے وہ اپنی آیاتیں کھول کھول کر بیان فرماتا ہے (آیت نمبر ۱۰ سورۃ ۱۱)

**Mercy means to be kind when there is no need to be kind!**

Welcome to first programming lab, as you are going to program in Java, you need some software to do programming. Though there are many softwares as option here we will begin with “**Textpad**”, a simple and light weight software. In Lab you can find **Textpad** in windows menu, may be inside “**Java**” group or just outside.

Once you succeed to open “**Textpad**” next you have to type your first program taking care of spaces, small and capital letters:

```
class FirstProgram{
    public static void main(String []args){
        System.out.println("Starting first program with name of Allah! ");
        System.out.println(3+5*6);
        System.out.println(10/3*3);
        System.out.println(10/3.0*3);
        System.out.println("End of first program!");
    }
}
```

- Press Ctrl+S to save this program, you will see this screen
- Type name against **File name:**
- Select **Java** in front of **Save as type:** drop down box
- **Compile** by pressing **Ctrl+1** keys on keyboard  
If there are errors correct them and recompile otherwise move to next step
- **Execute** by pressing **Ctrl+2** keys on keyboard

Well done first program completed.

Further create more programs by changing class name that is:

```
class SecondProgram{
```

Now from file menu select Save As or press F12 key from keyboard and give file name: **SecondProgram**

Write some other mathematical expressions like 3 written in first program and once again compile and execute your program.

Now if you have too bored you may leave the Lab or you can create more programs. I suggest use following functions:

**System.out.println:** to print in separate line each time

**System.out.print:** to print in same line

You may write different messages using ". . ."

