

# CIS 1.5 Fall 2009 Lab I.3

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## 1. Using integer variables

- Create a program called `bday.cpp` using Code::Blocks
- Declare two integer variables inside the `main()` function of your program:

```
int day;  
int month;
```

- After you declare them, set the value of these variables to the day and month in which you were born:

```
day = 1;  
month = 1;
```

- Then make your program say "happy birthday on 1/1" (or whatever your birthday is).

```
cout << "Happy Birthday on " << day << "/" << month << "\n";
```

- Compile and run it to make sure it works.

## 2. Using character variables

- Create a new program called `initials.cpp`
- Declare three character variables inside the `main()` function of your program:

```
char first;  
char middle;  
char last;
```

- After you declare them, set the value of these variables to your initials;

```
first = 'S';  
middle = 'D';  
last = 'P';
```

- Then change the output of your program. Say something creative using your initials.  
Here is an uncreative example:

```
cout << "My initials are " << first << middle << last << "\n";
```

- Compile and run it to make sure it works.

## 3. Adding it all up

- Create a new program called `initnum.cpp` by copying `initials.cpp`.
- Declare three integer variables after the three character variables that are already there from the `initials` program.
- Assign values to each of the integer variables by converting a character variable. YOU can do the first one like this:

```
char first;  
int first_num;  
first = 'S';  
first_num = (int)first;
```

and then you'll need to repeat something similar for the second and third initials.

- Now declare another integer variable called `sum`. Set “sum” equal to the total of the three integer values. Output the value of `sum`.
- Since S has the value 83, D has the value 68 and P has the value 80, for my initials `sum` would have the value 231.
- Compile and run the program to make sure it works.

#### 4. Dividing it up

- Add a new variable to your program `initnum.cpp`.

```
double average;
```

- Set the value of `average` to be the value of `sum` divided by 3.
- Output the value of `average`.
- Is the value you output a fraction?  
Hint: you need to cast.
- Compile and run the program to make sure it works.