

Assignment 1

1. Run the following program

```
main()
{
    int i, j = 5;
    char ch;
    float f;
    scanf("%c", ch);
    printf("%d is the ASCII code of '%c'\n", ch, ch);
    printf("the value of i is %d\n", i);
    i = ch;
    printf("the value of i is %d\n", i)
}
```

Answer the questions (*put answers as the comments below the program*):

- When you build this program, what are the errors there?
 - After you fix the errors and re-build the project, are there warnings? Why?
 - Fix the program by removing errors and warnings (assume the initial value of *i* is 0).
2. Write a program to input an integer and decide if it is multiple of 3 or 2.
 3. Write a program to input a positive integer which has exactly two digits (assume users always input correctly) and output an inverted number. For example, if the input is 24, the output is 42; if input is 20, output is 2.
 4. Write a program to read one character and decide if it is a digit, an English letter or others. Give the corresponding display message to make the output user-friendly.

Submission requirements:

Give a **meaningful name** for the program in each question, e.g., for question 2, you can name the file as Q2_Multiple.cpp, where 2 indicates the question number and Multiple indicates the purpose of this program. Compress the cpp files and submit the compressed file into iSpace before **11:55 pm, 16 Mar 2020**.