Lab 3

3.1 Variables, data type and type conversion

Write a simple C++ program with the preprocessing statements and the main function. The return type of the main function should be int and there should be a return statement, i.e.:

```
#include <iostream>
using namespace std;
int main() {
    // your code
    return 0;
}
```

Q1. double data type

Complete the following steps inside the main function:

- Declare a variable of type double, called "vFloat1", initialize it to be the result of 22.0 divided by 7 (division in C++ is represented by the "/" operator).
- 2. Output the value of vFloat1.

Q2. Implicit type conversion

Add the following code to the main function after your code for Q1. What's the output? Try to think about why.

```
int i = 5;
char a = 'B';
double x = 1.57;
i = i + x;
x = x * a;

cout << i << "\n";
cout << x << "\n";</pre>
```

3.2 Operators and basic I/O

Q-3.

a) Write a program **SumOfDigits.cpp** that read a number of three digits and print the sum of digits. Hint-1: For example, a number N = 346 the output should be 3+4+6=13 Hint-2: Use % and / operators.

Expected Output:

```
Please Enter a number of Three Digits:

456
Sum of Digits is:
15
```

 Extend the program of part-a, that reads a number of three digits and prints the sum of square of digits.

```
Hint: For example, a number N = 123 the output should be 1*1 + 2*2 + 3*3 = 14
```

```
Expected Output:

Please Enter a number of Three Digits:
 456
Sum of Square of Digits is:
 77
```