

## Conditional Statements (Assignment Solutions)

**Question 1 :**

```
int main() {  
    int num;  
    cin >> num;  
  
    if (num > 0) {  
        cout << "number is positive.\n";  
    } else if (num < 0) {  
        cout << "number is negative.\n";  
    } else {  
        cout << "number is zero.\n";  
    }  
  
    return 0;  
}
```

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**Question 2 :**

```
int main() {  
    int year;  
    cin >> year;  
  
    if (year % 400 == 0) {  
        cout << year << " is a leap year.\n";  
    } else if (year % 100 == 0) {  
        cout << year << " is NOT a leap year.\n";  
    } else if (year % 4 == 0) {  
        cout << year << " is a leap year.\n";  
    } else {  
        cout << year << " is NOT a leap year.\n";  
    }  
  
    return 0;  
}
```

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**Question 3 :** x = 0(false) & y = 63

**Question 4 :** Output will be “Bye”.

**Question 5 :**

```
int main() {  
    int n;  
    cout << "enter a 3 digit number : ";  
    cin >> n;  
  
    int num = n; //creating a copy  
  
    int dig1 = num % 10;  
    num /= 10;  
    int dig2 = num % 10;  
    num /= 10;  
    int dig3 = num;  
  
    int cubeSum = dig1*dig1*dig1 + dig2*dig2*dig2 + dig3*dig3*dig3;  
  
    if (cubeSum == n) {  
        cout << n << " is an Armstrong Number\n";  
    } else {  
        cout << n << " is NOT an Armstrong Number\n";  
    }  
  
    return 0;  
}
```

**Question 6 :**

**typedef** keyword in C++ is used for aliasing existing data types, user-defined data types, and pointers to a more meaningful name.

Eg : **typedef int myInt**

This allows us to declare new integers using myInt, instead of int.

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**Macros** can be of any type. Macros can even be any code block containing statements, loops, function calls etc. They are expanded by the preprocessor before compilation takes place.

**const** keyword is used to define the constant value that cannot change during program execution.



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