## Chapter 5 Emercises

5.2 a) Find the 16-bit 2's complementary binary representation for the decimal number 1987

b) Find the 16-bit 2's complementary binary representation for the decimal number - 1987

```
15 comp -> 1111 1000 0011 1100
25 comp -> 1111 1000 0011 1101
```

- complement hexadecimal representation for the decimal number -1987
  - → FFF83D
- 5.5 What are the 16-bit 13 complement & 2's complement of the following numbers.
  - a) 10000 15 Complement: 01111 25 Complement: 10000
  - 6) 100 1111 0000 1001 1's Complement: 011 0000 1111 0110 2's Complement: 011 0000 1111 0111
  - c) 0100 1110 0010 0100 18 Complement: 1011 0001 1101 1011 28 Complement: 1011 1110 0010 1100