DLD Software lab #1

Mohammad Yehya Hayati, 21K-3309, BCS-2G

Table of Contents

[**Task #1** 2](#_Toc95985950)

[**Task #2** 3](#_Toc95985951)

[**Task #3** 4](#_Toc95985952)

[**Task #4** 5](#_Toc95985953)

[Part #1 5](#_Toc95985954)

[Part #2 6](#_Toc95985955)

[Part #3 7](#_Toc95985956)

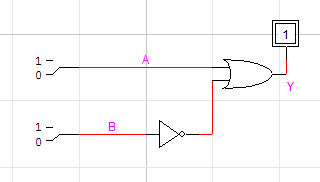
[Part #4 8](#_Toc95985957)

[Part #5 9](#_Toc95985958)

[Part #6 10](#_Toc95985959)

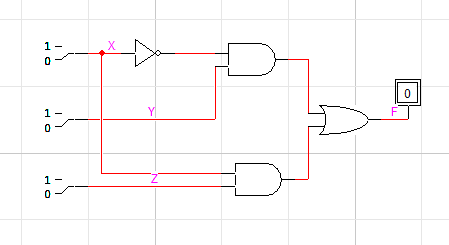
[Part #7 11](#_Toc95985960)

# **Task #1**



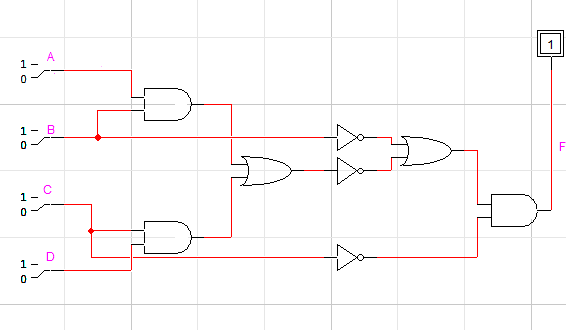
|  |  |  |
| --- | --- | --- |
| **INPUT(A)** | **INPUT(B)** | **OUTPUT** |
| 0 | 0 | 1 |
| 0 | 1 | 0 |
| 1 | 0 | 1 |
| 1 | 1 | 1 |

# **Task #2**



|  |  |  |  |
| --- | --- | --- | --- |
| **INPUT(X)** | **INPUT(Y)** | **INPUT(Z)** | **OUTPUT(F)** |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 |

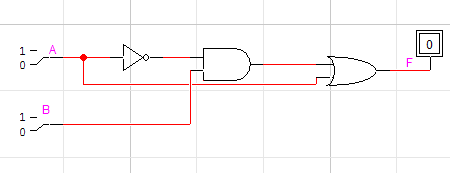
# **Task #3**



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **INPUT(A)** | **INPUT(B)** | **INPUT(C)** | **INPUT(D)** | **OUTPUT(F)** |
| 0 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 1 | 1 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 1 | 0 |
| 0 | 1 | 0 | 0 | 1 |
| 0 | 1 | 0 | 1 | 0 |
| 0 | 1 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 | 1 |
| 1 | 0 | 1 | 0 | 0 |
| 1 | 0 | 1 | 1 | 0 |
| 1 | 1 | 0 | 0 | 0 |
| 1 | 1 | 0 | 1 | 0 |
| 1 | 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 | 0 |

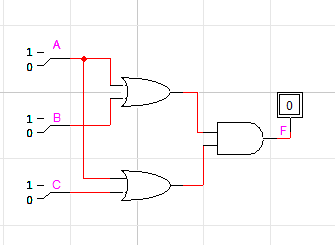
# **Task #4**

## Part #1



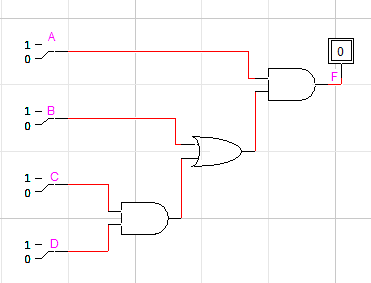
|  |  |  |
| --- | --- | --- |
| **INPUT(A)** | **INPUT(B)** | **OUTPUT(F)** |
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 1 |

## Part #2



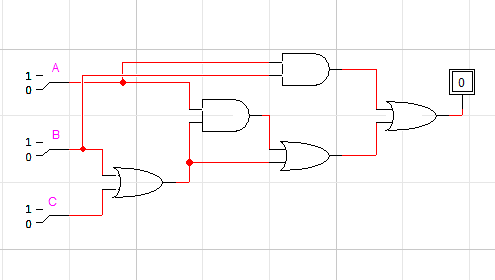
|  |  |  |  |
| --- | --- | --- | --- |
| **INPUT(A)** | **INPUT(B)** | **INPUT(C)** | **OUTPUT(F)** |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 0 | 1 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 |

## Part #3



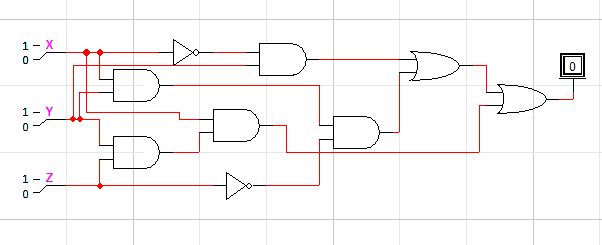
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **INPUT(A)** | **INPUT(B)** | **INPUT(C)** | **INPUT(D)** | **OUTPUT(F)** |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 1 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 0 | 1 | 0 | 1 | 0 |
| 0 | 1 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 | 0 |
| 1 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 | 0 |
| 1 | 0 | 1 | 1 | 1 |
| 1 | 1 | 0 | 0 | 1 |
| 1 | 1 | 0 | 1 | 1 |
| 1 | 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 | 1 |

## Part #4



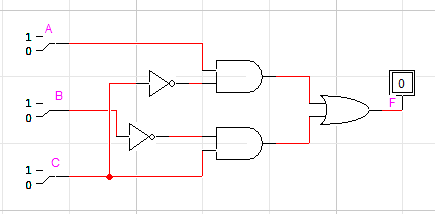
|  |  |  |  |
| --- | --- | --- | --- |
| **INPUT(A)** | **INPUT(B)** | **INPUT(C)** | **OUTPUT(F)** |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 |

## Part #5



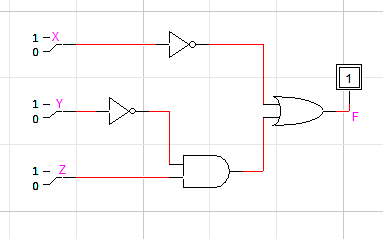
|  |  |  |  |
| --- | --- | --- | --- |
| **INPUT(X)** | **INPUT(Y)** | **INPUT(Z)** | **OUTPUT(F)** |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 |
| 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 |

## Part #6



|  |  |  |  |
| --- | --- | --- | --- |
| **INPUT(A)** | **INPUT(B)** | **INPUT(C)** | **OUTPUT(F)** |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 1 |
| 0 | 1 | 0 | 0 |
| 0 | 1 | 1 | 0 |
| 1 | 0 | 0 | 1 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 0 |

## Part #7



|  |  |  |  |
| --- | --- | --- | --- |
| **INPUT(X)** | **INPUT(Y)** | **INPUT(Z)** | **OUTPUT(F)** |
| 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 0 |