Міністерство освіти і науки України

Черкаський державний технологічний університет

Кафедра інформаційної безпеки та комп’ютерної інженерії

**ЗВІТ**

**з лабораторної роботи №1**

**з дисципліни**

**«Арифметичні та логічні структури комп’ютерів»**

Перевірив роботу: Виконав роботу:

старший викладач студент гр. КМ-175

Гресько С.О. Косенко А.В.

ЧЕРКАСИ 2018

**Завдання №1**

|  |  |  |  |
| --- | --- | --- | --- |
| Число при базисі 10 | Число при базисах | | |
| 8 | 2 | 16 |
| = 224 | 340 | 0 1110 0000 | E0 |
| = 88 | 130 | 0 0101 1000 | 68 |
| = 51 | 63 | 0 0011 0011 | 33 |
| = 0,19 | 0,14 | 0,0 0000 1100 | 0,0C |
| = 0,92 | 0,72 | 0,0 0011 1010 | 0,3A |
| = 0,32 | 0,24 | 0,0 0001 0100 | 0,14 |

**Завдання №2**

( = 9, = 15)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |

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| 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |

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| 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |

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( = 0, = 6)

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| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |

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| 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |

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| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |

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Завдання №3

( = 9, = 15)

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( = 0, = 6)

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б)

Завдання №4

(a(1,), б(1,0,))

A1

a)

б)

A2

a)

б)

A3

a)

б)