

I. Decimal
63

Binary
10611 1111
 $32+16+8+13+2+1$

Hexa
3F
 $\frac{63}{16} = 3R15$
 $\frac{3}{16} = 0P3$

Octal
77
 $\frac{63}{8} = 7R7$
 $\frac{7}{8} = 0R7$

J. 18

0001 0010

12
 $\frac{16}{16} = 1R2$
 $\frac{1}{16} = 0P1$

22₈
 $(2 \times 8) + (2 \times 8)$
 $16+2 = 18$

0.0000
6 8 4 2 1

0001 0010

Rhyansen

Comparison Homework

d.	Decimal	0000 1421 0001 0.0001	Binary	Hexa	Octal
a.	16	0000	0001	1 ₁₆	2
b.	10	0000 1010	1010	A	12 $\frac{10}{8} = 1 R 2$
c.	42	0000 0000 0010 1010	00101010	2A	52 $\frac{42}{8} = 5 R 2$ $\frac{5}{8} = 0 R 5$
d.	255	0003 0000 192 64 226 111 1111	1111 1111	FF	277 $\frac{255}{16} = 15 R 15$ $\frac{15}{16} = 0 R 15$
e.	223	18 416 8421 146-212 0000 0000 1101 1111	1001 1111	DF ₁₆	551 $\frac{223}{8} = 27 R 7$ $\frac{27}{8} = 3 R 3$ $\frac{3}{8} = 0 R 3$
f.	15	10 431 000	1111	F	17 $\frac{15}{8} = 1 R 7$ $\frac{7}{8} = 0 R 1$
g.	129	0000 0000 1000 0001	1000 0001	81 ₁₆	201 $129 = 16 R 1$ $16/8 = 2 R 0$ $2/4 = 0 R 2$
h.	147	120416 129014 221	1001 0011	93	237 $\frac{147}{16} = 9 R 3$ $\frac{9}{16} = 0 R 9$ $\frac{147}{82} = 1 R 65$ $\frac{65}{87} = 0 R 65$

 /cygdrive/u/se185/lab01

rjlawson@C02042-12 ~

\$ cd u:fall2019/se185/lab01

-bash: cd: u:fall2019/se185/lab01: No such file or directory

rjlawson@C02042-12 ~

\$ cd u:/se185/lab01

rjlawson@C02042-12 /cygdrive/u/se185/lab01

\$ ls

rjlawson@C02042-12 /cygdrive/u/se185/lab01

\$ gcc lab01-1.c -o lab01-1

rjlawson@C02042-12 /cygdrive/u/se185/lab01

\$./kab01-1

-bash: ./kab01-1: No such file or directory

rjlawson@C02042-12 /cygdrive/u/se185/lab01

\$./lab01-1

Good Morning

rjlawson@C02042-12 /cygdrive/u/se185/lab01

\$ |

 /cygdrive/u/se185/lab01

\$./lab01-input

Value before input: 0

Type a number: 15

Type your NetID: rjlawson

Your input was 15 and your ISU email is rjlawson@iastate.edu

rjlawson@C02042-12 /cygdrive/u/se185/lab01

\$./lab01-input < mydata.txt

-bash: mydata.txt: No such file or directory

rjlawson@C02042-12 /cygdrive/u/se185/lab01

\$./lab01-output | ./lab01-input

Value before input: 0

Type a number: Type your NetID:

Your input was 10 and your ISU email is rjlawson@iastate.edu

rjlawson@C02042-12 /cygdrive/u/se185/lab01

\$./lab01-output | ./lab01-input > NETID.txt

rjlawson@C02042-12 /cygdrive/u/se185/lab01

\$ |