

Q1.1

Enter an unsigned integer in decimal: 353
Enter an unsigned integer in hexadecimal: 38fc
Enter an unsigned integer in octal: 4367
353 is stored as hex 161 and octal 541
38fc is stored as decimal 14588 and octal 34374
4367 is stored as decimal 2295 and hex 8f7
Program ended with exit code: 0

Q1.b

Enter an unsigned integer in decimal: 5678
Enter an unsigned integer in hexadecimal: acbdfc
Enter an unsigned integer in octal: 776644
5678 is stored as hex 162e and octal 13056
acbdfc is stored as decimal 11320830 and octal 53136776
776644 is stored as decimal 261540 and hex 3fda4
Program ended with exit code: 0

Q1.2

Data type integer store in 4 bytes, which is 32 bits.

Q2.

Enter a phrase then press enter: Brooklyn NY
Address :ASCII value
0x7ff7bfeff310:0x42
0x7ff7bfeff311:0x72
0x7ff7bfeff312:0x6f
0x7ff7bfeff313:0x6f
0x7ff7bfeff314:0x6b
0x7ff7bfeff315:0x6c
0x7ff7bfeff316:0x79
0x7ff7bfeff317:0x6e
0x7ff7bfeff318:0x20
0x7ff7bfeff319:0x4e
0x7ff7bfeff31a:0x59
0x7ff7bfeff31b:0xa
Program ended with exit code: 0

Q4

Enter an integer: 29

Multiply by two raised to the power: 14

$29 \times 16384 = 475136$

Divide by two raised to the power: 3

$29 / 8 = 3$

Program ended with exit code: 0

Q5

Enter an integer in hexadecimal: 100

You entered $0x00000100 = 256$ (decimal)

Program ended with exit code: 0