## **Screenshot Output from Terminal:**

```
Instruction
______
100011000001000100000000000000100
                                  miss
1000110000010010000000000000010000
                                  miss
100011000001001100000000000100000
                                  miss
1000110000010100000000000000010100
                                  miss
101011000001000100000000001010000
                                  miss
101011000001001000000000001000100
                                  miss
101011000001001100000000001001100
                                  miss
101011000001010000000000011100000
                                  miss
1000110000010001000000000000100100
                                  miss
100011000001001000000000000101100
                                  miss
100011000001001100000000000010000
                                  hit
100011000001010000000000010101100
                                  miss
1010110000010001000000000000010100
                                  hit
1010110000010010000000000000011000
                                  miss
101011000001001100000000000100100
                                  hit
101011000001010000000000001000100
                                  miss
100011000001000100000000000100100
                                  hit
100011000001001000000000000101100
                                  hit
1000110000010011000000000000010000
                                  hit
100011000001010000000000010101100
                                  hit
101011000001000100000000001100000
                                  miss
101011000001001000000000001010100
                                  miss
101011000001001100000000001011100
                                  miss
101011000001010000000000011110000
                                  miss
Registers
=======
 : 000000000000000000000000000000110000
```

```
Cache
----
Block
Valid
Tag
 Data
```

## Memory

\_\_\_\_

64: 000000000000000000000000000001000101 65: 00000000000000000000000000001000110 2: 0000000000000000000000000000000111 66: 0000000000000000000000000001000111 00000000000000000000000000001001001 69: 00000000000000000000000000001001010 70: 0000000000000000000000000001001011 7: 000000000000000000000000000001100 71: 00000000000000000000000000001001100 8: 0000000000000000000000000000001101 72: 0000000000000000000000000001001101 9: 0000000000000000000000000000001110 73: 00000000000000000000000000001001110 10: 0000000000000000000000000000001111 74: 0000000000000000000000000001001111 75: 000000000000000000000000001010000 12: 000000000000000000000000000000010001 76: 0000000000000000000000000001010001 77: 0000000000000000000000000001010010 14: 0000000000000000000000000000010011 78: 0000000000000000000000000001010011 15: 00000000000000000000000000000010100 79: 0000000000000000000000000001010100 16: 00000000000000000000000000000010101 80: 0000000000000000000000000001010101 17: 000000000000000000000000000110000 00000000000000000000000000101110 18: 0000000000000000000000000000010111 000000000000000000000000001010111 19: 0000000000000000000000000000001101 83: 0000000000000000000000000001011000 84: 0000000000000000000000000001011001 85: 0000000000000000000000000001011010 22: 0000000000000000000000000000011011 86: 0000000000000000000000000001011011 87: 00000000000000000000000000001011100 88: 0000000000000000000000000001011101 25: 000000000000000000000000000011110 89: 0000000000000000000000000001011110 26: 000000000000000000000000000011111 90: 0000000000000000000000000001011111 27: 0000000000000000000000000000100000 91: 0000000000000000000000000001100000 92: 000000000000000000000000001100001 29: 0000000000000000000000000000100010 93: 000000000000000000000000001100010 30: 00000000000000000000000000000100011 94: 0000000000000000000000000001100011 95: 000000000000000000000000001100100 32: 00000000000000000000000000000100101 96: 000000000000000000000000001100101 33: 00000000000000000000000000000100110 97: 0000000000000000000000000001100110 34: 000000000000000000000000000000100111 98: 0000000000000000000000000001100111 35: 00000000000000000000000000000101000 99: 000000000000000000000000001101000 36: 00000000000000000000000000000101001 100: 000000000000000000000000001101001 37: 00000000000000000000000000000101010 101: 0000000000000000000000000001101010 102: 0000000000000000000000000001101011 38: 00000000000000000000000000000101011 39: 0000000000000000000000000000101100 103: 000000000000000000000000001101100 40: 00000000000000000000000000000101101 104: 0000000000000000000000000001101101 41: 00000000000000000000000000000101110 105: 0000000000000000000000000001101110

42:	0000000000000000000000000000101111	106:	000000000000000000000000001101111
43:	000000000000000000000000000110000	107:	000000000000000000000000001110000
44:	000000000000000000000000000110001	108:	000000000000000000000000001110001
45:	000000000000000000000000000110010	109:	000000000000000000000000001110010
46:	000000000000000000000000000110011	110:	000000000000000000000000001110011
47:	000000000000000000000000000110100	111:	000000000000000000000000001110100
48:	000000000000000000000000000110101	112:	000000000000000000000000001110101
49:	000000000000000000000000000110110	113:	000000000000000000000000001110110
50:	000000000000000000000000000110111	114:	000000000000000000000000001110111
51:	000000000000000000000000000111000	115:	000000000000000000000000001111000
52:	000000000000000000000000000111001	116:	000000000000000000000000001111001
53:	000000000000000000000000000111010	117:	0000000000000000000000000001111010
54:	000000000000000000000000000111011	118:	000000000000000000000000001111011
55:	000000000000000000000000000111100	119:	000000000000000000000000001111100
56:	000000000000000000000000000000000000000	120:	000000000000000000000000001111101
57:	000000000000000000000000000111110	121:	000000000000000000000000001111110
58:	00000000000000000000000000111111	122:	000000000000000000000000001111111
59:	000000000000000000000000001000000	123:	00000000000000000000000010000000
60:	00000000000000000000000000110000	124:	00000000000000000000000010000001
61:	000000000000000000000000001000010	125:	000000000000000000000000010000010
62:	000000000000000000000000001000011	126:	00000000000000000000000010000011
63:	000000000000000000000000001000100	127:	000000000000000000000000010000100