**Program:**

#include <stdio.h>

int main(void) {

int binaryInput = 0x4092;

int bcdResult = 0;

int shift = 0;

printf("Binary: 0x%x (dec: %d)\n", binaryInput , binaryInput );

while (binaryInput > 0) {

bcdResult |= (binaryInput % 10) << (shift++ << 2);

binaryInput /= 10;

}

printf("BCD: 0x%x (dec: %d)\n", bcdResult , bcdResult );

return 0;

}

**Output**:

Binary: 0x4092 (dec: 16530)

BCD: 0x16530 (dec: 91440)

**Explanation:**

■I have mentioned a header file then we have to get the input from the user(binary value)

■we have to convert the binary value into binary coded value.

■Then we have to print the value using printf statement.

■for the reverse process of converting the output binary value i have been using while loop and specified a condition binary input>0.

■Then the expected output has been successfully verified.

