

```
1: #include <stdio.h>
2:
3:
4: int main (void)
5: {
6:
7:     int year, studentID; //i\236\205i\225\231i\227°ë\217\204i\231\200
i\225\231ë²\210i\235\204 i \225i\210\230i\230\225i\234¼ë;\234
i\236\205ë ¥ë°\233ë\212\224ë\213¤
8:     float score; //i\225\231i \220i\235\200 i\206\214i\210\230i \220
i\225\234 i\236\220ë|¬ ë¹\214i$ \200ë$ \214 ë°\233i\234¼ë¬\200ë;\234 i\235¼ë\213"
floati\230\225i\234¼ë;\234 i\236\205ë ¥i\235\204 ë°\233ë\212\224ë\213¤
9:
10:
11:     printf("When did you enter the university?");
12:     scanf("%d", &year);
13:
14:     printf("What is your student ID (without years)?");
15:     scanf("%d", &studentID);
16:
17:     printf("What is your score?");
18:     scanf("%f", &score);
19:
20:
21:
22:     printf("Your student number is %d-%d and your score is %.1f \n", year,
studentID, score); //.1fë¥¼ ë¶\231i\227¬i\204\234 i\225\231i \220i\235\200
i\206\214i\210\230i \220 i\225\234 i\236\220ë|¬ ë¹\214i$ \200ë$ \214
ë°\230i\230¬ë|¼i\225\230i\227¬ i\221\234i\230\204i\225\234ë\213¤
23:
24:
25:
26:
27:
28:
29:
30:
31:     return 0;
32: }
```

```
1: #include <stdio.h>
2:
3:
4:
5: int main(void)
6: {
7:
8:
9:     float length;
10:    int meter, centimeter; //ê±°ë|¬ì\231\200 ë¬,í\204°,
i\204¼í\213°ë¬,í\204°ë¼¼ ë°\201ë°\201 i\225\214ë$ \236ë\212\224 ë³\200ì\210\230ë; \234
i\204 i\226,í\225\234ë\213¤
11:
12:
13:
14:    printf("Enter the length in km :");
15:    scanf("%f", &length);
16:
17:
18:    meter = (int)(length * 1000); // i\236\214í\212,i\227\220 ë\224°ë\235¼
í\230\225ë³\200í\231\230i\235\204 i\235´i\232ëí\225\230i\227¬ i\206\214i\210\230i \220
i\235´í\225\230 i\210«i\236\220ë¼¼ i\227\206i\227\220ë²\204ë|°ë\213¤
19:    centimeter = (int)((length * 100000) - (meter * 100) + 0.5);
//ë°\230i\230¬ë|¼í\235\204 í\225´i\225¼í\225\234ë\213¤ë\212\224 i;°ë±´i\227\220
i£¼í\235\230i\225\234ë\213¤
20:
21:
22:
23:    printf("%gkm is approximately %dm %dcm \n", length, meter, centimeter);
24:
25:
26:
27:
28:
29:
30:
31:
32:
33:    return 0;
34:
35: }
```

```
1: #include <stdio.h>
2:
3: int main()
4: {
5:
6:
7:
8:
9:     int priceA, gramA, priceB, gramB; // ê°\200ë²@ë³¼ ë¬´ê²\214ë¼¼
ë²"ë\221\220 i \225i\210\230i\230\225i\234¼ë; \234 i\236\205ë ¥ë°\233ë\212\224ë\213¼
10:     double pricePergramA, pricePergramB; // ë³\204i\202°i\235\230
i \225i\231\225i\204+i\235\204 i\234\204i\225´ double ë³\200i\210\230ë¼¼
i\202¬i\232@i\225\234ë\213¼
11:     int result;
12:
13:
14:
15:
16:     printf("Enter the price and weight of A mart: ");
17:     scanf("%d %d", &priceA, &gramA);
18:
19:
20:     printf("Enter the price and weight of B mart: ");
21:     scanf("%d %d", &priceB, &gramB);
22:
23:
24:
25:     // gë\213¹ ë°\200ë²@i\235\204 ë³\204i\202°i\225\230ë³
i\206\214i\210\230i \220 ë\221\230i$,i\236\220ë;¬ë¹\214i$ \200
ë°\230i\230¬ë;¼i\225\234ë\213¼
26:     // i\206\214i\210\230i \220 ë\221\230i$,i$ \234ë;¬ë¹\214i$ \200
ë°\230i\230¬ë;¼i\225\230ë,° i\234\204i\225´ 0.5ë¼¼ ë\215\224i\225\230ë³ inti\227\220
i$ \221i\226´ë\204ëë\212\224 i\205\214i\201¬ë\213\211i\235\204 i\202¬i\232@i\225\234ë\213¼
27:     pricePergramA = (double)priceA / gramA * 100;
28:     pricePergramA = (int)(pricePergramA + 0.5) / 100.0;
29:
30:
31:
32:     pricePergramB = (double)priceB / gramB * 100;
33:     pricePergramB = (int)(pricePergramB + 0.5) / 100.0;
34:
35:
36:
37:     // ë°\200ë²@ ë¹\204ëµ\220
38:     result = (pricePergramA > pricePergramB) - (pricePergramA <
pricePergramB);
39:
40:     printf("The result of comparison [-1: A is cheaper, 0: the same, 1: B is
cheaper]: %d\n", result);
41:
42:
43:
44:
45:     return 0;
46: }
47:
```

```
1: #include <stdio.h>
2:
3:
4:
5: int main (void)
6: {
7:
8:     unsigned char num; // 0ë¸\200í\204° 256ë¸,ë$¸\214í\235\230
í\226\221í\235\230 í \225í\210\230ë¸¸ ë°\233ë\212\224ë\213¸ë\212\224 í;°ë±´í\227\220
íí¸í\235\230í\225\234ë\213¸
9:     int quotient, remain, multiple;
10:
11:     printf("Enter a positive integer: ");
12:     scanf("%hu", &num); // í\230\225í\213\235í$¸\200í \225í\236\220í\227\220
íí¸í\235\230í\225\234ë\213¸. ëµ\220í\225\210í\227\220í\204\234ë\212\224 %huë; \234
ë\202\230í\231\200í\236\210í\226´í\204\234 í\235´ë±, í\215¸í\234¸ë\202\230 %hhuë; \234
warningí\235´ ë\234,. ëµ\220í\225\210í\227\220 í¸í\213¸í\225\230í\227¬ %huë¸¸
í\202¬í\232í\225"
13:
14:
15:     quotient = num >> 2; // 4ë; \234 ë\202\230ë\210\204ë\212\224 ë²\203ë³¸
ë°\231í\235\200 í\232"ë³¸í\235´ë\213¸
16:
17:
18:     remain = num & 3; // 4ë; \234 ë\202\230ë\210\210
ë\202\230ë", í$¸\200í\231\200 ë°\231ë\213¸. 3í\235\200 2í$¸\204í\210\230ë; \234
11í\235´ë¬\200ë; \234, AND í\227°í\202°í\236\220ë¸¸ í\206µí\225\230í\227¬
3í\235´í\225\230í\235\230 í\236\220ë; ¸í\210\230ë$¸\214 í¸\234ë ¸í\225\230ë²\214
ë\220\234ë\213¸
19:
20:
21:     multiple = (num << 2) + num; //5ë¸¸ ë³±í\225\234ë\213¸ë\212\224
ë²\203í\235\200 4ë°°ë¸¸ í\225\234 í\235´í\233\204 1ë°°ë¸¸ ë\215\224í\225\230ë\212\224
ë²\203ë³¸ ë°\231ë\213¸. ë\224°ë\235¸í\204\234 í\233\220ë\236\230 numí\227\220 4ë°°ë¸¸
í\225´ííë³, numí\235\204 í\225\234ë²\210 ë\215\224 ë\215\224í\225\230ë©´
5ë³±í\225\230ë, °í\231\200 ë°\231í\235\200 í\232"ë³¸í\235´ë\213¸
22:
23:
24:
25:     printf("After divided by 4, the quotient is %d and the remainder is %d\n"
, quotient, remain);
26:     printf("After multiplied by 5, it is %d\n", multiple);
27:
28:
29:
30:
31:     return 0;
32: }
```

```
1: #include <stdio.h>
2:
3:
4: int main (void)
5: {
6:
7:     unsigned char num; //4ë²\210ë³¼ ë$²210i°¬ë°\200i$²200ë;²34 256
ë¬,ë$²214i\235²30 i²225i\210²230ë¼¼ i²236²205ë ¥ë°²33i²225²204i²225¼i²225²234ë²213¼
8:     int count1 = 0; //ë°²201 i²236²220ë¬i²227²220 1i²235´
i;´i²236¬i²225²230ë²212²224i$²200 f²231²225i²235,i²225²230ë²212²224
ë³²200i²210²230i²235´ë²213¼
9:
10:
11:
12:     printf("Enter a hexadecimal number: ");
13:     scanf("%hx", &num); //i²230²225i²213²235i$²200i²225i²236²220i²227²220
i²234 i²235²230. i²²230i²235²214i²227²220ë²212²224 ëµ²220i²225²210i²227²220
i²236²210ë²212²224 ¤hxë¼¼ i²215¼i²234¼ë²202²230 i»´f²214²214i²235¼ i²²221 ¤hxxë¼¼
i²215¬i²225¼i²225²234ë²213¼ë³ ë²¼ë³ ë°²200 ë²234,. warningi²235´ë,°i²227²220
ë¬´i²213²234i²225²230ë³ ëµ²220i²225²210i²235²204 ë²224°ëi²204
14:
15:
16:     printf("The number is %d in decimal representation and %o in octal
representation.\n", num, num);
17:
18:
19:     // f²236²214i²212,i²227²220 ë²224°ë²235¼, 8i²236²220ë¬i²235²230
i²235´i$²204i²210²230 1111111(255) ë³¼ AND ë¹²204i²212,i²227°i²202°i²235²204
f²231²234i²232ëf²225²230i²227¬ 1ë$²214 ë±´i²,ë²202´ë²212²224 ë³¼i²225i²235²204
ë±°i´²234ë²213¼
20:     count1 += (num & 1) !=0; // i²235´i$²204i²210²230 1, 10, 100, 1000, 10000
ë²223±ë³¼ AND i²227°i²202°i²236²220ë¼¼ i²235´i²232ëf²225²230i²227¬
i²225i²231²225i²236²210 1ë°²234i²224ë count1i²227²220 ë²215²224i²225²230ë²217²204ë;²235
i²225²234ë²213¼
21:     count1 += (num & 2) !=0; // !=0i²235²204 i²202¬i²232ëf²225²230i$²200
i²225²212i²235²204 ë²¼i²232°, count1i²227²220ë²212²224 i²232°ë¬¬ë°²200
i²233²220i²225²230ë²212²224 1i²235²230 ë°²234i²210²230ë°²200 i²225²204ë²213²210ë²235¼,
i²213¼i²234 i²235´i$²204i²210²230 i²225i²210²230ë°²200 ë²215²224i²225´i$²200ë²212²224
i²213¬ë°²201i²225²234 ë¬,i²234ë°²200 ë°²234i²203²235i²225²234ë²213¼
22:     count1 += (num & 4) !=0;
23:     count1 += (num & 8) !=0;
24:     count1 += (num & 16) !=0;
25:     count1 += (num & 32) !=0;
26:     count1 += (num & 64) !=0;
27:     count1 += (num & 128) !=0;
28:
29:
30:
31:
32:     printf("The number of 1's in the binary representation is %d\n", count1);
33:
34:
35:
36:
37:
38:
39:     return 0;
40: }
```