1)Swap two number without extra variable

```c
1   // Online C compiler to run C program online
2   #include <stdio.h>
3
4   int main() {
5       int a,b;
6       printf("Enter no.1:");
7       scanf("%d",&a);
8       printf("Enter no.2:");
9       scanf("%d",&b);
10      printf("Before swapping: %d %d\n",a,b);
11      printf("After swapping:");
12
13      printf("%d %d",b, a);
14
15      return 0;
16  }
```

```
/tmp/t4ReW9ltht.o
Enter no.1:2
Enter no.2:5
Before swapping: 2 5
After swapping:5 2
```

2) Change value 0 to 1 in given number

```c
1   #include <stdio.h>
2   #include <string.h>
3
4   int main() {
5       char a[100];
6       printf("Enter the number including zeros:");
7       scanf("%s", a);
8
9       for (int i = 0; i < strlen(a); i++) {
10          if (a[i] == '0') {
11              a[i] = '1';
12          } else {
13              continue;
14          }
15      }
16
17      printf("Changed string is: %s\n", a);
18
19      return 0;
20  }
21
```

```
/tmp/bQY8aUHG17.o
Enter the number including zeros:02980
Changed string is: 12981
```

3) Binary to decimal

```c
1   #include <stdio.h>
2   #include <math.h>
3   #include <string.h>
4
5   int main() {
6       char a[100];
7       printf("Enter the number in binary:");
8       scanf("%s", a);
9
10      int aa = strlen(a) - 1;
11      int c = 0;
12
13      for (int i = aa; i >= 0; i--) {
14          if (a[i] == '1') {
15              c += pow(2, aa - i);
16          }
17      }
18
19      printf("Decimal value is: %d\n", c);
20
21      return 0;
22  }
23
```

```
/tmp/77A7Goty0u.o
Enter the number in binary:10101010
Decimal value is: 170
```

4) Factorial value

```c
1   // Online C compiler to run C program online
2   #include <stdio.h>
3
4   int main() {
5       int a;
6       printf("Enter the number:");
7       scanf("%d",&a);
8       int fact=1;
9       for(int i=1; i<=a; i++){
10          fact=fact*i;
11      }
12      printf("Factorial value is: %d",fact);
13
14      return 0;
15  }
16
```

```
/tmp/aDv8SjMnmA.o
Enter the number:4
Factorial value is: 24
```

5) Reverse the number

```c
1   #include <stdio.h>
2   #include <string.h>
3
4   int main() {
5       char a[100];
6       printf("Enter a number: ");
7       scanf("%s", a);
8
9       int b = strlen(a) - 1;
10      char aa;
11
12      for (int i = b; i >= 0; i--) {
13          aa = a[i];
14          printf("%c", aa);
15      }
16
17      return 0;
18  }
19
```

```
/tmp/2wTOfwDb7K.o
Enter a number: 1234
4321
```

-GOPI P(ECE-A)