```
1 #include <stdio.h>
                                                           /tmp/306v70nwK0.o
                                                           Enter an integer: 12345
3 int main()
                                                           The reverse of the integer is: 54321
4 - {
5
       int num, rev = 0;
 6
7
       printf("Enter an integer: ");
 8
       scanf("%d", &num);
9
10
      for (int i = num; i > 0; i /= 10)
11 -
12
           int digit = i % 10;
13
          rev = (rev * 10) + digit;
14
15
16
       printf("The reverse of the integer is: %d\n", rev);
17
18
       return 0;
19 }
```

```
1 #include <stdio.h>
                                                            /tmp/306v70nwK0.o
2
                                                            Enter an integer: 12345
3 int main()
                                                            The sum of digits in the integer is: 15
4 - {
       int num, sum = 0, digit;
6
       printf("Enter an integer: ");
7
8
       scanf("%d", &num);
9
10
       for (int i = num; i > 0; i /= 10)
11 -
           digit = i % 10;
12
13
           sum += digit;
14
15
       printf("The sum of digits in the integer is: %d\n",
16
17
18
       return 0;
19 }
```

```
1 #include <stdio.h>
                                                              /tmp/306v70nwK0.o
  2 #include <math.h>
                                                              Enter an integer: 123456
                                                              The number of digits in the integer is: 6
  3
  4 int main()
  5 - {
  6
         int num, count;
  7
  8
         printf("Enter an integer: ");
  9
         scanf("%d", &num);
 10
         count = floor(log10(abs(num))) + 1;
 11
 12
         printf("The number of digits in the integer is:
 13
             %d\n", count);
 14
 15
         return 0;
 16 }
```

```
#include <stdio.h>
                                                                                              /tmp/306v70nwK0.o
int main()
                                                                                              Enter the amount: 575
                                                                                              Minimum number of notes required:
    int amount, notes_500, notes_100, notes_50, notes_20, notes_10, notes_5,
                                                                                              Rs. 500: 1
       notes_2, notes_1;
                                                                                              Rs. 100: 0
    printf("Enter the amount: ");
                                                                                              Rs. 50: 1
    scanf("%d", &amount);
                                                                                              Rs. 20: 1
    notes_500 = amount / 500;
                                                                                              Rs. 10: 0
    amount %= 500;
                                                                                              Rs. 5: 1
    notes_100 = amount / 100;
                                                                                              Rs. 2: 0
    amount %= 100;
                                                                                              Rs. 1: 0
    notes_50 = amount / 50;
    amount %= 50;
    notes_20 = amount / 20;
    amount %= 20;
    notes_10 = amount / 10;
    amount %= 10;
    notes_5 = amount / 5;
amount %= 5;
    notes_2 = amount / 2;
    amount %= 2;
    notes_1 = amount;
    printf("Minimum number of notes required:\n");
    printf("Rs. 500: %d\n", notes_500);
printf("Rs. 100: %d\n", notes_100);
    printf("Rs. 50: %d\n", notes_50);
printf("Rs. 20: %d\n", notes_20);
```

```
#include <stdio.h>
                                                                                      /tmp/306v70nwK0.o
                                                                                      Enter a character: C
 int main()
                                                                                      C is an uppercase alphabet.
* {
    char ch;
     printf("Enter a character: ");
     scanf("%c", &ch);
     if (ch >= 'a' && ch <= 'z')
        printf("%c is a lowercase alphabet.\n", ch);
     else if (ch >= 'A' && ch <= 'Z')
        printf("%c is an uppercase alphabet.\n", ch);
     else
        printf("%c is not an alphabet.\n", ch);
     return 0;
```

```
#include <stdio.h>
                                                                                    ▲ /tmp/306v70nwK0.o
 #include <string.h>
                                                                                      Enter a string: mahipal
                                                                                      Number of vowels in the string: 3
 int main()
* {
     char str[100];
     int i, vowels = 0;
     printf("Enter a string: ");
     fgets(str, 100, stdin);
     for (i = 0; str[i] != '\0'; i++)
         if (str[i] == 'a' || str[i] == 'e' || str[i] == 'i' || str[i] == 'o' ||
             str[i] == 'u' ||
             str[i] == 'A' || str[i] == 'E' || str[i] == 'I' || str[i] == '0' ||
                str[i] == 'U')
             vowels++;
     printf("Number of vowels in the string: %d\n", vowels);
     return 0;
```

```
1 #include <stdio.h>
                                                                                 /tmp/306v70nwK0.o
 2
                                                                                 Enter a character: 1
 3 int main()
                                                                                 l is an alphabet.
 4 * {
 5
        char ch;
 6
 7
        printf("Enter a character: ");
 8
        scanf("%c", &ch);
 9
        if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z'))
 10
 11 -
 12
            printf("%c is an alphabet.\n", ch);
 13
        }
 14
        else
 15 -
        {
 16
        printf("%c is not an alphabet.\n", ch);
 17
 18
 19
        return 0;
 20 }
21
```

```
1 #include <stdio.h>
                                                                              /tmp/306v70nwK0.o
                                                                              Enter a number: 55
2
3 int main()
                                                                              55 is divisible by 5 and 11.
4 * {
5
       int num;
6
7
       printf("Enter a number: ");
       scanf("%d", &num);
8
9
10
       if (num % 5 == 0 && num % 11 == 0)
11 -
12
       printf("%d is divisible by 5 and 11.\n", num);
13
14
       else
15 -
       printf("%d is not divisible by both 5 and 11.\n", num);
16
17
18
19
       return 0;
20 }
21
```

```
[] G Run
main.c
                                                                                  Output
 1 #include <stdio.h>
                                                                                 /tmp/306v70nwK0.o
                                                                                 Enter a number: 5
3 int main()
                                                                                5 is positive.
5
       int num;
6
7
       printf("Enter a number: ");
8
       scanf("%d", &num);
9
10
       if (num > 0)
11 -
           printf("%d is positive.\n", num);
12
13
       else if (num < 0)
14
15 -
           printf("%d is negative.\n", num);
16
17
18
       else
19 -
       {
           printf("The number is zero.\n");
20
21
22
23
       return 0;
24 }
```

```
1 #include <stdio.h>
                                                              /tmp/306v70nwK0.o
 2
                                                              Enter a decimal number: 11
3 int main()
                                                              The binary equivalent is: 1011
4 * {
 5
       int decimal, remainder, binary = 0, base = 1;
 6
 7
       printf("Enter a decimal number: ");
       scanf("%d", &decimal);
 8
 9
       while (decimal > 0)
10
11 -
12
            remainder = decimal % 2;
13
            binary = binary + remainder * base;
            base = base * 10;
14
            decimal = decimal / 2;
15
16
17
       printf("The binary equivalent is: %d\n", binary);
18
19
20
       return 0;
21 }
```