



main.c

Output



```
1  #include <stdio.h>
2
3  int main() {
4      int num;
5      printf("Enter a number: ");
6      scanf("%d", &num);
7
8      if (num < 10) {
9          printf("the digit\n");
10     } else if (num >= 10 && num <= 100
11         ) {
12         printf("two digit\n");
13     } else {
14         printf("integer\n");
15     }
16     return 0;
17 }
18
```

Run



main.c

Output



```
1  #include <stdio.h>
2
3  int main() {
4      int year;
5      printf("Enter a year: ");
6      scanf("%d", &year);
7
8      if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {
9          printf("%d is a leap year.\n",
10              year);
11      } else {
12          printf("%d is not a leap year
13              .\n", year);
14      }
15      return 0;
16  }
```

Run



main.c

Output



```
1  #include <stdio.h>
2
3  int main() {
4      char ch;
5      printf("Enter a character: ");
6      scanf(" %c", &ch);
7
8      if ((ch >= 'a' && ch <= 'z') ||
          (ch >= 'A' && ch <= 'Z')) {
9          printf("The character is an
              alphabet.\n");
10     } else if (ch >= '0' && ch <= '9')
11     {
12         printf("The character is a
            digit.\n");
13     } else {
14         printf("The character is a
            special character.\n");
15     }
16     return 0;
17 }
```

Run

program to check vowel or consonant

```
#include <stdio.h>
```

```
int main() {
```

```
    char c;
```

```
    int lowercase_vowel, uppercase_vowel;
```

```
    printf ("enter an alphabet:");
```

```
    scanf ("%c", &c);
```

```
    lowercase_vowel = (c == 'a' || c == 'e' || c == 'i' || c == 'o' ||
```

```
                      c == 'u');  
    uppercase_vowel = (c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U');
```

```
    if (lowercase_vowel || uppercase_vowel)
```

```
        printf ("%c is a vowel", c);
```

```
    else
```

```
        printf ("%c is a consonant", c);
```

```
    return 0;
```


To read day
name in word format.

```
#include <stdio.h>
```

```
int main() {
```

```
    int day-num;
```

```
    printf("enter a day number (1-7):");
```

```
    scanf("%d", &day-num);
```

```
    switch (day-num) {
```

```
        printf(" Sunday\n");
```

```
        break;
```

```
        printf(" Monday\n");
```

```
        break;
```

```
        printf(" Tuesday\n");
```

```
        break;
```

```
        printf(" Wednesday\n");
```

```
        break;
```

```
        printf(" Thursday\n");
```

```
        break;
```

```
        printf(" Friday\n");
```

```
        break;
```

```
        printf(" Saturday\n");
```

```
        break;
```

```
    default:
```

```
        printf(" Invalid day number\n");
```

```
        break;
```

```
    }
```

```
    return 0;
```

```
}
```