

Write a program to check following conditions.

- > if number is less than 10 print "one digit" on screen
- > if number greater than or equal to 10 but less than 100 print "two digit" on screen.
- > otherwise print "integer" on screen.

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

```
int main() {
```

```
    int num;
```

```
    printf("Enter an integer: ");
```

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

```
    if (num < 10) {
```

```
        printf("one digit\n");
```

```
    } else if (num >= 10 && num < 100) {
```

```
        printf("two digit\n");
```

```
    } else {
```

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

```
    }
```

```
    return 0;
```

```
}
```

## output

Enter an integer: 9

One digit.

2) write a program to find given year is leap year or not.

```
#include <stdio.h>
int main() {
    int year;
    printf("enter a year : ");
    scanf("%d", &year);
    if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0))
    {
        printf("%d is a leap year. \n", year);
    }
    else {
        printf("%d is not a leap year. \n", year);
    }
    return 0;
}
```

output:

Enter a year : 2024  
2024 is a leap year.

Write a program to check whether a character is an alphabet, digit or special character.

```
#include <stdio.h>
int main()
{
    char ch;
    /* Input character from user */
    printf("Enter any character:");
    scanf("%c", &ch);

    /* Alphabet check */
    if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z'))
    {
        printf("%c is alphabet", ch);
    }
    else if (ch >= '0' && ch <= '9')
    {
        printf("%c is special character", ch);
    }
    return 0;
}
```

out put

Enter any character : a

'a' is alphabet.

u) write a program to check whether an alphabet is a vowel or a consonant.

```
// include <stdio.h>
```

```
int main() {
```

```
    char c;
```

```
    int lower case - vowel = 1, upper case - vowel = 1;
```

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

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

```
    // evaluates to 1 if variable c is a lower case vowel
```

```
    lower case - vowel = (c == 'a' || c == 'e' || c == 'i' ||  
    c == 'o' || c == 'u');
```

```
    // evaluates to 1 if variable c is a upper case vowel
```

```
    upper case - vowel = (c == 'A' || c == 'E' || c == 'I' ||  
    c == 'O' || c == 'U');
```

```
    // evaluates to 1 (true) if c is a vowel
```

```
    if (lower case - vowel || upper case - vowel)
```

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

```
    else
```

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

```
    return 0;
```

```
}
```

### Output

Enter an alphabet: a

a is a vowel.

7) write a program to read any day number as integer and display name in word-format.

```
#include <stdio.h>
void main()
{
    int day no.;
    printf("Input day no : ");
    scanf("%d", &day no.);
    switch(day no)
    {
        case 1:
            printf("monday\n");
            break;
        case 2:
            printf("Tuesday\n");
            break;
        case 3: printf("wednesday\n");
            break;
        case 4:
            printf("Thursday\n");
            break;
        case 5:
            printf("Friday\n");
            break;
        case 6:
            printf("Saturday\n");
            break;
    }
```

Case 7:

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

```
break;
```

default:

```
printf ("Invalid day number, please try
```

```
again ..... \n");
```

```
break;
```

3. 4

### output

Enter day no : 7

Sunday.