

Q. 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;
}
```

Output

Enter any character : a

'a' is alphabet.

4) 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 = 0, upper_case_vowel = 0;

Print("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("The character is a vowel.", c);
```

else

```
printf("The character is a consonant.", c);
```

```
return 0;
```

}

Output

Enter an alphabet: a

a is a vowel.

Q) write a program to read any day number in 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"),
printf ("Sunday\n"),
break;

default:

printf ("Invalid day number, please try
again \n"),
break;

2.

Output

Enter day no : 7

Sunday.