

Q: Write a pgm to check following conditions.

- > If number is less than 10 print "one digit" on screen.
- > If number is 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 a number:");

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 a number : 8

one digit.

Enter a number : 45

Two digit.

Enter a number : 123

Tataex.

② Write a pgm to find given year is leap year or not.

Ans

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

Input:-

Enter a year 2004.

Output:

2004 is a leap year.

③ Write a pgm to check whether a character is an alphabet, digit or special character.

As

```
#include <stdio.h>
int main()
{
    char ch;
    printf ("enter any character:");
    scanf ("%c", &ch);
    if ((ch >= 'A' && ch <= 'Z') || (ch >= 'a' && ch <= 'z'))
        printf ("It is an alphabet:\n");
    else if (ch >= '0' && ch <= '9')
        printf ("It is a digit:\n");
    else
        printf ("It is a special character:\n");
    return 0;
}
```

Input

Enter any character : 45

Output

45 is a digit.

(4) Write a program to check whether an alphabet

(5)

is a vowel or a consonant.

Ans

Ans

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

```
int main()
```

```
{
```

```
char ch;
```

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

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

```
if (ch == 'A' || ch == 'E' || ch == 'I'
```

```
|| ch == 'O' || ch == 'U' || ch == 'A'
```

```
|| ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U')
```

```
printf ("vowel : \n");
```

```
else
```

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

```
return 0;
```

```
}
```

Input:

Enter an alphabet : S

Output:

S is a Consonant.

Q5 Write a pgm to read any day number and
name in word format.

```
#include <stdio.h>
int main()
{
    int day;
    printf ("enter day number (1-7): ");
    scanf ("%d", &day);
    switch(day)
    {
        case 1: printf ("Sunday\n"); break;
        case 2: printf ("Monday\n"); break;
        case 3: printf ("Tuesday\n"); break;
        case 4: printf ("Wednesday\n"); break;
        case 5: printf ("Thursday\n"); break;
        case 6: printf ("Friday\n"); break;
        case 7: printf ("Saturday\n"); break;
        default: printf ("Invalid day number!\n");
    }
}
```

Input:

Enter day number (1-7): 6

Output:

Friday,