

1) >if number  $< 10$  print ("one digit") >if num is  $\geq 10 < 100$  print ("two digits")  
 >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
    {
        else if (num >= 10 && num < 100)
        {
            printf ("Two digits \n");
        }
        else
        {
            printf ("Integer \n");
        }
    }
    return 0;
}
```

output:- Enter a number : 8  
 one digit.

2) program to find leap year or not.

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

Output:-  
 Enter a year : 2024  
 is a leap year.

3. character is an alphabet, digit or special character.

```
#include <stdio.h>
int main()
{
    char ch;
    printf ("Enter any character : ");
    scanf ("%c", &ch);
    if (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;
}
```

Output:-

enter any character: a

It is an alphabet

4) An alphabet is a vowel or a constant.

```
#include <stdio.h>
int main()
{
    char ch;
    printf ("Enter any alphabet : ");
    scanf ("%c", &ch);
    if ((ch >= 'A' && ch <= 'Z') || (ch >= 'a' && ch <= 'z')) {
        if (ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U' ||
            ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u')
        {
            printf ("It is a vowel\n");
        }
        else {
            printf ("It is a consonant\n");
        }
    }
    else {
        printf ("It is not an alphabet\n");
    }
}
```

```
    }  
    return 0;  
}
```

Output:-

Enter any alphabet : U

It is a vowel.

5) TO read any day number in integer and display name in word formate.

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

```
int main()
```

```
{
```

```
int day;
```

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

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

```
if (day == 1)
```

```
{
```

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

```
}
```

```
else if (day == 2)
```

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

```
}
```

```
else if (day == 3)
```

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

```
}
```

```
else if (day == 4)
```

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

```
}
```

```
else if (day == 5)
```

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

```
}
```

```
else if (day == 6)
```

```
{
```

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

```
}
```

```
else if (day == 7)
```

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

```
}
```

```
else
```

```
printf ("invalid day number. please enter a number between
```

```
1-7\n");
```

```
}
```

```
return 0;
```

```
}
```

Output :-

Enter day number (1-7) = 6

Friday