

1. Write a pgm to check following conditions  
> if number is less than 10 printf "one digit" on screen

> if number greater than or equal to 10 but less than 100 printf "two digit" on screen.

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

```
int main()
```

```
{
```

```
int num;
```

```
printf ("Enter a number:");
```

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

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

```
{
```

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

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

```
{
```

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

```
} else {
```

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

```
}
```

```
return 0;
```

```
}
```

2. Write a pgm 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;
```

```
}
```

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

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

```
int main()
```

```
{
```

```
char ch;
```

```
printf ("Enter a character:");
```

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

```
If ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z'))
```

```
{
```

```
printf ("The character is an alphabet.\n");
```

```
} else if (ch >= '0' && ch <= '9')
```

```
{
```

```
printf ("The character is a digit.\n");
```

```
} else {
```

```
printf ("The character is a special character.\n");
```

```
}
```

```
return 0;
```

```
}
```

Write a pgm to check whether an alphabet is vowel or consonant

```
#include <stdio.h>
int main(){
    char ch;
    printf("Enter an 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("vowel\n");
        else
            printf("Not an alphabet\n");
    }
    return 0;
}
```

Write a pgm to read any day number in integer and display 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");
        case 2:
            printf("monday\n");
        case 3:
            printf("tuesday\n");
        case 4:
            printf("wednesday\n");
        case 5:
            printf("thursday\n");
        case 6:
            printf("friday\n");
        case 7:
            printf("saturday\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");
default:
    printf("Default\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");
}
return 0;
}
```