

1. write a pgm to check following conditions
- > if number is less than 10 print "onedigit" 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.

Ans: #include <stdio.h>
#include <conio.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");
getch();
return 0;
}

output

enter a number: 8
one digit

enter a number: 45
two digit

Enter a number: 123
Integer

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

Ans. source code:

```
#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%100 != 0) || (year%400 == 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.

Ans. source code

```
#include <stdio.h>
#include <conio.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");
    getch();
    return 0;
}
```

• Input

enter any character : 45

output

45 is a digit.

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

Ans source code

```
#include <stdio.h>
#include <conio.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("consonant\n");
    getch();
    return 0;
}
```

In put

Enter an alphabet: S

output

S is a consonant.

5. write a program to read any day number and display name in word format

Ans. source code

```
#include <stdio.h>
#include <conio.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");
    }
    getch();
    return 0;
}
```

Input

enter day number (1-7): 6

output

Friday.