

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)%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.

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;
}
```

② 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 ~~opt~~ alphabet: S

output

S is a consonant.

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

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.