

1) Write a program to check the following conditions

- (i) If number less than 10 print "one digit"
- (ii) If number ≥ 10 but < 100 print "two digit"
- (iii) Otherwise print "integer"

Input

```
#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: 7

one digit

enter a number: 42

two digit

enter a number: 42

two digit

2)write a program to find whether a given year is a leap year or not

input

```
#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 yeaar\n",year);

    else

        printf("%d is not a leap year\n",year);

    return 0;
}
```

output

```
enter a year: 2024

2024 is a leap year

enter a year: 1947

1947 is not a leap year
```

3)Write a program to check whether a character is an alphabet, digit, or special character

input

```
#include<stdio.h>

int main()

{
    int ch;
```

```
printf("enter a character: ");
scanf("%c", &ch);
if((ch>='a' && 'z') || (ch>='A' && 'Z'))
printf("alphabet\n");
else if (ch>='0' && ch <= '9')
printf("digit\n");
else
printf("special character\n");
return 0;
}
```

output

enter a character: M

alphabet

enter a character: 7

digit

enter a character:@

special character

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

input

```
#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("consonant\n");  
return 0;  
}
```

output

enter an alphabet: J

consonant

enter an alphabet: E

vowel

5)write a program to read any day number in integer and display its name in word format

input

```
#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");

}

return 0;
```

output

enter day number(1-7): 6

Friday

enter day number(1-7): 9

invalid day number