

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 $\geq$ 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