

```
⇒ #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 digits\n");  
    }  
    else {  
        printf("Integer\n");  
    }  
    return 0;  
}
```

Output :-

Enter a number : 4
one digit

```
#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 digits\n");
    }
    else {
        printf("Integer\n");
    }
    return 0;
}
```

out put

```
Enter a number : 45
two digits
```

```
#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 leap year\n", year);
    else
        printf("%d is not a leap year\n", year);
    return 0;
}
```

Output:

Enter a year : 2025

2025 is not a leap year.

)=>

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

```
int main() {
```

```
char ch;
```

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

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

```
if ((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");
```

```
}
```

```
return 0;
```

```
}
```

Output

Enter any character : a

It is an alphabet

Enter any character : @

It is a special character

Enter any character : 5

It is a digit

```

④) #include <stdio.h>
int main() {
    char ch;
    printf("Enter any 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("it is a vowel\n");
            }
        } else {
            printf("it is a consonant\n");
        }
    } else {
        printf("it is not an Alphabet\n");
    }
    return 0;
}

```

Output

Enter any alphabet: S

It is a constant

```
5) #include <stdio.h>
int main() {
    int day;
    printf("Enter day number (1-7): ");
    scanf("%d", &day);
    if (day == 1) {
        printf("Sunday\n");
    }
    else if (day == 2) {
        printf("Monday\n");
    }
    else if (day == 3) {
        printf("Tuesday\n");
    }
    else if (day == 4) {
        printf("Wednesday\n");
    }
    else if (day == 5) {
        printf("Thursday\n");
    }
    else if (day == 6) {
        printf("Friday\n");
    }
    else {
        printf("Invalid day number! Please enter
between 1 and 7.\n");
    }
    return 0;
}
```

Output

```
Enter day number (1-7): 3
Tuesday.
```