① (i)

```c
⇒ #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");
   }
   elk {
   printf(" Integer \n"); }
   return 0;
   }
```

output :-

Enter a number : 4
one digit

(ii)
```c
   #include <stdio.h>
   int main() {
   int num;
   printf("Enter a number: ");
   scanf("%d", &num);
   if (num < 10) {
   printf("one digit \n");
```

```c
    else if (num >=10 && num < 100) {
    printf (" Two digits \n");
    }
    printf (" Integers ");   }
    return 0;
    }
```

Output :-

Enter a number : 45
Two digits

```c
2) => #include <stdio.h>
    int main () {
    int year;
    printf (" Enter a year; ");
    scanf (" %d ", &year);
    if (year %4 == 0 && year %100 != 0) {
    printf (" %d is leap year \n", year);
    }
    else {
    printf (" %d is not a leap year \n", year);
    }
    return 0;
    }
```

Enter a year: 2025

2025 is not a leap year

③
```c
#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;
}
```

Out put :-

Enter any 'harcter : a
It is an alphabet
Enter any character : @
It is a special character

(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 == 'o' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' ||
ch == 'A' || ch == 'E' || ch == 'i' || ch == 'O' || ch == 'u')(
printf ("it is a vowel \n");}
elu {
printf (" it is a consonant \n"); }
}
elu {
printf (" it is not an alphabet \n"); }
return 0 ;
}

Output :-

Enter any alphabet : s
It is a Constant.

⑤
```c
#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 a day number (1-7) = 3

Tuerday.