

```

i)
#include <stdio.h>
int main()
{
    int n;
    printf("Enter a value:");
    scanf("%d", &n);

```

```

    if (n < 10)
    {
        printf("one digit\n");
    }

```

```

    else if (n >= 10 & & n < 100) {
        printf("two digits\n");
    }

```

```

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

```

out put.

Enter a number: 4

one digit.

```

ii) #include <stdio.h>

```

```

int main()
{

```

```

    int n;
    printf("Enter a number:");
    scanf("%d", &n);

```

```

1. if (num/2.
2. if (n < 10) {
3. printf ("one digit \n");
4. }
: else if (num >= 10 && num < 100) {
printf ("two digits \n");
}
printf ("Integer");
return 0;
}

```

out put :-  
 Enter a number: 45  
 Two digits.

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;
```

```
}
```

out put :-

Enter a year: 2025  
2025 is not a leap year.

```
3. #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')
```

```
    }
```

```
    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.

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```

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;
}

```

out put  
 Enter any alphabet's  
 if is a constant.