

- ① write a program to read any day number in integer and display name in word format.

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

```
int main()
```

```
{
```

```
    int n;
```

```
    printf("Enter a number from 1 to 7\n");
```

```
    scanf("%d", &n);
```

```
    if (n <= 7)
```

```
{
```

```
        if (n == 1)
```

```
            printf("Sunday");
```

```
        else if (n == 2)
```

```
            printf("Monday");
```

```
        else if (n == 3)
```

```
            printf("Tuesday");
```

```
        else if (n == 4)
```

```
            printf("Wednesday");
```

```
        else if (n == 5)
```

```
            printf("Thursday");
```

```
        else if (n == 6)
```

```
            printf("Friday");
```

```
        else if (n == 7)
```

```
            printf("Saturday");
```

```
    }
```

```
    else
```

```
        printf("Invalid Entry");
```

```
    return 0;
```

```
}
```

Ex
Enter a number : 1

Sunday

Q) write a program to check whether a character is a vowel or a consonant

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

```
int main()
```

```
{
```

```
    char ch;
```

```
    int uppercase, lowercase;
```

```
    printf("Enter an alphabet:");
```

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

```
    uppercase = (ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O');
```

```
    lowercase = (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o');
```

```
    if (uppercase || lowercase)
```

```
        printf("%c is a vowel", ch);
```

```
    else printf("%c is a consonant", ch);
```

```
    return 0;
```

```
}
```

Output

Enter an alphabet: I

I is a vowel

Enter an alphabet: m

m is a consonant

3) write a program to check whether a character is an alphabet, digital or special character.

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

```
int main()
```

```
{
```

```
    char c;
```

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

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

```
    if ((c >= 'a' && c <= 'z') || (c >= 'A' && c <= 'Z'))
```

```
        printf("%c is an alphabet.", c)
```

```
    else printf("%c is not a alphabet.", c);
```

```
    return 0;
```

```
}
```

Output

Enter a character : *

is not an alphabet

a character is
character.

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

```
#include <stdio.h>
int main()
```

```
{ printf ("Enter a year: ");
```

```
scanf ("%d", &year;
```

```
// leap year if perfectly divisible by 400
```

```
if (year % 400 == 0)
```

```
{ printf ("%d is a leap year", year;
```

```
}
```

```
// not a leap year if div. by 100
```

```
// but not divisible by 400
```

```
else if (year % 100 == 0
```

```
{ printf ("%d is not a leap year", year);
```

```
}
```

```
else if (year % 4 == 0)
```

```
{ printf ("%d is a leap year", year);
```

```
}
```

```
else
```

```
{ printf ("%d is not a leap year", year);
```

```
}
```

```
return 0;
```

```
}
```

Enter a year: 1900

1900 is not a leap year

Enter a year: 2012

2012 is a leap year

5) write a program to check following conditions

a) → If number is less than 10 Print "one digit" on screen

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

```
int main()
```

```
{  
  int num;
```

```
  // prompt the user to enter a number
```

```
  printf ("Enter a number: ");
```

```
  scanf ("%d", &num);
```

```
  if (num < 10)
```

```
    // check if the is less than 10
```

```
  {
```

```
    printf ("one digit\n");
```

```
  }
```

```
  return 0;
```

```
}
```

Enter a number : 9

one digit

b) If number greater than or equal to 10 but less than 100 Print "two digit" on screen.

→

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

```
void main()
```

```
{  
  int n1, n2;
```

```
  printf ("Enter the value for n1 and n2);
```

```
  scanf ("%d %d", &n1, &n2);
```

```
  if (n1 == n2)
```

```
    printf ("n1 and n2 are equal");
```

```
  }
```

```
  else if
```

```
    printf ("n1 and n2 are not equal");
```

```
}
```

ii) => #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");
 }
 return 0; else {
 printf("Integer\n");
 }
 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);

output:

enter the values for n_1 and n_2 : 20 20
 ~~n_1 and n_2 are equal~~

① ~~otherwise print "integer" on screen~~

~~#include <stdio.h>~~

~~void main~~

~~{~~

~~else {~~

~~printf("Integer\n");~~

~~}~~

~~}~~

output:

enter the value: 20 26

n_1 & n_2 are not equal.