

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;
}
```

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("The character is an alphabet.");
    else
        printf("The character is not an alphabet.");
    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 num 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
        printf ("n1 and n2 are not equal");
}
```

5

ing, condition
"one digit" on screen

out put

enter the value

```
1) => #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

```
2) => #include <stdio.h>
```

```
int main() {
    int year;
    printf ("Enter a Year : ");
    scanf ("%d", &year);
```

On Screen

Output:

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

④ 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.