

PROGRAM S

1Q.write a program to check following conditions in c language:

If number less than 10 print "one digit"

If number greater than or equal to 10 but less than 100 print "two digits"

Other wise print "integer"

```c

**include**

```
int main() {
int num;
printf("Enter an integer: ");
scanf("%d", &num);
if (num < 10)
{
printf("one digit\n"); // If number is less than 10
}
else if (num >= 10 && num < 100) {
printf("two digits\n");
}
else
{
```

```
printf("integer\n");
return 0;
}
```

## 2Q.WRITE A PROGRAM TO FIND GIVEN YEAR IS LEAP YEAR OR NOT.

```
```c
```

include

```
int main()  
{  
int year;  
printf("Enter a year: ");  
scanf("%d", &year);  
if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0))  
{  
printf("%d is a leap year.\n", year);  
}  
else  
{  
printf("%d is not a leap year.\n", year);  
}  
return 0;  
}
```

3Q. WRITE A PROGRAM TO CHECK WHETHER A CHARACTER IS AN ALPHABET, DIGIT OR SPECIAL CHARACTER.

```c

**include**

```
int main() {
 char ch;
 printf("Enter a character: ");
 scanf(" %c", &ch);
 if ((ch >= 'a' && ch <= 'z')
 {
 printf("%c is an alphabet.\n", ch);
 }
 else if (ch >= '0' && ch <= '9')
 {
 printf("%c is a digit.\n", ch);
 } else
 {
 printf("%c is a special character.\n", ch);
 }
 return 0;
}
```

...

#### 4Q.WRITE A PROGRAM TO WHEATHER AN A ALPHABET IS VOWEL OR A CONSTANT.

```c

include

```
int main() {
char ch;
printf("Enter an alphabet: ");
scanf(" %c", &ch);
// Convert to lowercase for easier comparison
ch = tolower(ch);
if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u')
{
printf("%c is a vowel.\n", ch);
}
else if (ch >= 'a' && ch <= 'z') // Ensure it's still an
alphabet
{
printf("%c is a consonant.\n", ch);
}
else
{
```

```
printf("Invalid input. Please enter an alphabet.\n");
}
return 0;
}
...
```

5Q. WRITE A PROGRAM TO READ ANY DAY NUMBER IN INTEGER & DISPLAY NAME IN WORD FORMAT.

```
```c
```

#### **include**

```
int main() {
int dayNum;
printf("Enter a day number (1-7): ");
scanf("%d", &&&dayNum);
switch (dayNum) {
case 1:
printf("Monday\n");
break;
case 2:
printf("Tuesday\n");
break;
case 3:
printf("Wednesday\n");
```

```
break;
case 4:
printf("Thursday\n");
break;
case 5:
printf("Friday\n");
break;
case 6:
printf("Saturday\n");
break;
case 7:
printf("Sunday\n");
break;
default:
printf("Invalid day number. Please enter a number between 1 and
7.\n");
break;
}
return 0;
}
...
```