

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"

Otherwise 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 A ALPHABET, DIGIT OR SPECIAL CHARACTER.

```c

**include**

```
int main() {
 char ch;
 printf("Enter a character: ");
 scanf(" %c", &ch);
 if ((ch >= 'a' && ch <= 'z') || (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 WHETHER 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;  
}  
```
```