

CMR University

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Practical-3

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Test Status: Passed

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Marks Scored: 25.75

Member Id: null

Total Marks : 30

***** Test Summary Report *****

Section - 1					Marks per question : 5	Negative marks per question : -50%	Marks Scored : 20 / 20
#	Q No.	Q. Type.	Q. Tag	Status	Time Taken	Marks	

1.	Q. No:71 14	CEval	assessment	✓	00 : 06 : 01	5
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Assume that the weekdays are provided some the below numbers:

```
Monday => 1
Tuesday => 2
Wednesday => 3
Thursday => 4
Friday => 5
Saturday => 6
Sunday => 7
```

Write a program to read the **weekday number** from the standard input and print the **weekday name** using **switch-case**.

At the time of execution, the program should print the message on the console as:

```
Enter weekday number (1-7) :
```

For example, if the user gives the **input** as **1**:

```
Enter weekday number (1-7) : 1
```

then the program should **print** the result as:

```
Monday
```

Note: If the given input number is not in the range i.e., other than **1** to **7**, the output should be as given below:

```
Invalid weekday number
```

Note: Do use the **printf()** function with a **newline** character (**\n**) at the end.

Source Code:

```

//File Name: Program6.c
//=====
#include<stdio.h>
void main()
{
    int weekday;
    printf("Enter weekday number (1-7) : ");
    scanf("%d",&weekday);
    switch(weekday)
    {
        case 1 :
            printf("Monday\n");
            break;
        case 2:
            printf("Tuesday\n");
            break;
        case 3:
            printf("Wednesday\n");
            break;
        case 4 :
            printf("Thrusday\n");
            break;
        case 5 :
            printf("Friday\n");
            break;
        case 6 :
            printf("Saturday\n");
            break;
        case 7 :
            printf("Sunday\n");
            break;
        default :
            printf("Invalid weekday number\n");
    }
}

```

Execution Results:

(Avg. Time: 28.5 ms , Max. Time: 61 ms)

Test Case - 1 (Execution Time: 26 ms)		Correct Output	
Expected Output		User Output	Status
Enter weekday number (1-7) :		Enter weekday number (1-7) : 0	✓
Invalid weekday number		Invalid weekday number	✓

Test Case - 2 (Execution Time: 61 ms)		Correct Output	
Expected Output		User Output	Status
Enter weekday number (1-7) :		Enter weekday number (1-7) : 5	✓
Friday		Friday	✓

2.

Q.

CEval

[assessment](#)



00 : 03 : 35

5

Write a program to check whether the user has [vote](#) or not.

At the time of execution, the program should print the message on the console as:

Enter the age of user :

Enter the age of user : .

For example, if the user gives the **input** as:

Enter the age of user : 22

then the program should **print** the result as:

User has vote

Note: If the user's age is less than **21** then the program should print the result as:

User has no vote

Note: Do use the **printf()** function with a **newline** character (**\n**) at the end.

Source Code:

```
//File Name: Program1.c
//=====
#include<stdio.h>
void main()
{
    int n;
    printf("Enter the age of user : ");
    scanf("%d",&n);
    if(n<21)
    {
        printf("User has no vote\n",n);
    }
    else
    {
        printf("User has vote\n",n);
    }
}
```

Execution Results:

(Avg. Time: 18.5 ms , Max. Time: 33 ms)

Test Case - 1 (Execution Time: 10 ms)		Correct Output	
Expected Output		User Output	Status
Enter the age of user :		Enter the age of user : 27	✓
User has vote		User has vote	✓

Test Case - 2 (Execution Time: 33 ms)		Correct Output	
Expected Output		User Output	Status
Enter the age of user :		Enter the age of user : 18	✓
User has no vote		User has no vote	✓

3.

Q.

CEval

assessment



00 : 06 : 38

5

No:71

13

Write a program to check whether the given year is **leap year** or not.

Use **if-else** statement and print **"__ is a leap year"**:

- if a year is divisible by **4** and should not be divisible by **100**.
- If a year is divisible by **400**.

Otherwise, print "__ is not a leap year".

At the time of execution, the program should print the message on the console as:

Enter a year :

For example, if the user gives the **input** as:

Enter a year : 1900

then the program should **print** the result as:

1900 is not a leap year

Note: Do use the **printf()** function with a **newline** character (`\n`).

Source Code: [C](#)

```
//File Name: Program5.c
//=====
#include<stdio.h>
void main()
{
    int year;
    printf("Enter a year : ");
    scanf("%d",&year);
    if(year % 400 == 0)
        printf("%d is a leap year\n",year);
    else if(year % 100 == 0)
        printf("%d is not a leap year\n",year);
    else if(year % 4 == 0)
        printf("%d is a leap year\n",year);
    else
        printf("%d is not a leap year\n",year);
}
```

Execution Results:

(Avg. Time: 5.3 ms , Max. Time: 6 ms)

Test Case - 1 (Execution Time: 6 ms)		Correct Output	
Expected Output		User Output	Status
Enter a year :		Enter a year : 1900	✓
1900 is not a leap year		1900 is not a leap year	✓

Test Case - 2 (Execution Time: 5 ms)		Correct Output	
Expected Output		User Output	Status
Enter a year :		Enter a year : 2000	✓
2000 is a leap year		2000 is a leap year	✓

4.

Q.
No:71
15

CEval

[assessment](#)



00 : 06 : 58

5

An electric power distribution company charges its domestic consumers as follows:

Consumption Units	Rate of Charge
0 - 200	Rs.0.50 per unit
201 - 400	Rs.100 plus Rs.0.65 per unit excess 200

401 - 600	Rs.230 plus Rs.0.80 per unit excess of 400
601 and above	Rs.390 plus Rs.1.20 per unit excess of 600

Write a C program that reads the **customer number** and **power consumed** and prints the amount to be paid by the customer.

At the time of execution, the program should print the message on the console as:

Enter the customer number and power consumed in units :

For example, if the user gives the **input** as:

Enter the customer number and power consumed in units : 104 560

then the program should **print** the result as:

Amount to be paid by customer number: 104 is Rs.: 358.00

Source Code:

```
//File Name: Program7.c
//=====
#include <stdio.h>
void main() {
    int custNo, powerUsage;
    float amount;
    printf("Enter the customer number and power consumed in units : ");
    scanf("%d %d",&custNo,&powerUsage);
    if(powerUsage >= 0 && powerUsage <= 200)
        amount = 0.50 * powerUsage;
    else if(powerUsage >= 201 && powerUsage <= 400)
        amount= 100 + (0.65 *(powerUsage-200));
    else if(powerUsage >= 401 && powerUsage <= 600)
        amount = 230 + (0.80 * (powerUsage - 400));
    else
        amount = 390 + (1.20 * (powerUsage - 600));

    printf("Amount to be paid by customer number: %d is Rs.: %5.2f\n", custNo, amount);
}
```

Execution Results:

(Avg. Time: 14.5 ms , Max. Time: 39 ms)

Test Case - 1 (Execution Time: 39 ms)		Correct Output	
Expected Output		User Output	Status
Enter the customer number and power consumed in units :		Enter the customer number and power consumed in units : 102 670	✓
Amount to be paid by customer number: 102 is Rs.: 474.00		Amount to be paid by customer number: 102 is Rs.: 474.00	✓

Test Case - 2 (Execution Time: 6 ms)		Correct Output	
Expected Output		User Output	Status
Enter the customer number and power consumed in units :		Enter the customer number and power consumed in units : 104 560	✓
Amount to be paid by customer number: 104 is Rs.: 358.00		Amount to be paid by customer number: 104 is Rs.: 358.00	✓

Section - 2

Marks per question : 1 Negative marks per question : -25% Marks Scored : 5.75 / 10

#	Q No.	Q.	Q. Tag	Status	Time Taken	Marks
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Type.

1. Q.
No:70
24

MC-MA assessment ✓

00 : 00 : 06

1

What will be the output of the following C program segment?

```
char inchar = 'A';
switch (inchar) {
    case 'A' : printf ("choice A \n");
    case 'B' : printf ("choice B ");
    case 'C' :
    case 'D' :
    case 'E' :
    default:    printf ("No choice");
}
```

- No choice
 - Choice A
 - choice A
- choice B No choice
- Program gives no output as it is erroneous

2. Q.
No:68
39

MC-MA assessment



00 : 01 : 03

0

The type of the controlling expression of a **switch** statement cannot be of the type

- int
- char
- float
- short

3. Q.
No:69
37

MC-MA assessment



00 : 02 : 18

1

What will be the output of the following C code?

```
#include <stdio.h>
#define f(g1, g2) g1##g2
void main() {
    int var12 = 100;;
    printf("%d", f(var, 12));
}
```

- var12
 - 10012
 - 100
- Compilation Error

4. Q.
No:68
56

MC-MA assessment



00 : 00 : 13

1

Find the
error

in the following program

```
#include <stdio.h>
void main() {
    int m = 1;
    char g;
    switch (m) {
        default: grade = "S"; break;
        case 3: grade = "P"; break;
        case 2: grade = "Q"; break;
        case 1: grade = "R"; break;
    }
}
```

- `switch` statement cannot have more than three labels.
- The `case` labels cannot be numbers.
- The `default` label must be used only at the ending of all cases in switch statement.
- Undefined symbol **grade**.

5. Q.
No:68
32

MC-MA

assessment



00:00:16

0

What will be the output of the following C code?

```
#include <stdio.h>
void main() {
    int y = 10;
    if (y++ > 9 && y++ != 10 && y++ > 10)
        printf("%d", y);
    else
        printf("%d", y);
}
```

- 14
- 13
- 12
- 11

6. Q.
No:71
40

MC-MA

assessment



00:00:06

1

What will be the output of the following C code?

```
#include <stdio.h>
void main() {
    int i;
    if (printf("0"))
        i = 3;
    else
        i = 5;
    printf("%d", i);
}
```

- 3
- 5
- 05
- 03

7. Q.
No:69
70

MC-MA

assessment



00:00:07

1

Identify the token pasting operator?

+

++

##

#

8.

Q.
No:69
46

MC-MA

assessment



00 : 00 : 22

0

What will be the output of the following C code?

```
#include <stdio.h>
#define FALSE -1
#define TRUE 1
#define NULL 0
void main() {
    if (NULL)
        puts("NULL");
    else if (FALSE)
        puts("TRUE");
    else
        puts("FALSE");
}
```

1

TRUE

-1

NULL

9.

Q.
No:68
58

MC-MA

assessment



00 : 01 : 18

-0.25

The **continue** statement cannot be used with

while

do while

switch case

for

10.

Q.
No:69
35

MC-MA

assessment



00 : 00 : 17

1

What will be the output of the following C code?

```
#include <stdio.h>
void main() {
    int i = 1, j = 2;
    switch (i) {
        case 1: printf("GOOD");
        break;
        case j: printf("BAD");
        break;
    }
}
```

- GOOD
- BAD
- Compilation Error
- GOOD BAD

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