

TUTORIALS – 6

(MODULE – 2)

1. Create a C program that asks the user to enter a character. If the entered character is a vowel (a, e, i, o, u), print "Vowel". Otherwise, print "Consonant".

main.c



Save

Run

```
1 //MODULE 2, TUTORIALS - 6
2 //Switch statement
3 //1. Create a C program that asks the user to enter a character. If
  the entered character is a vowel (a, e, i, o, u), print "Vowel".
  Otherwise, print "Consonant".
4 #include <stdio.h>
5 int main()
6 {
7     char character;
8
9     printf("Enter a character:");
10    scanf("%c", &character);
11
12    switch (character)
13    {
14        case 'a':
15        case 'e':
16        case 'i':
17        case 'o':
18        case 'u':
19        case 'A':
20        case 'E':
21        case 'I':
22        case 'O':
23        case 'U':
24        printf("Vowel\n");
25        break;
26    default:
27        printf("Consonant\n");
28    }
29
30    return 0;
31 }
32
```

OUTPUT

Output

```
/tmp/4PdKXhesVe.o
Enter a character:A
Vowel
|
```

```
/tmp/4PdKXhesVe.o
Enter a character:B
Consonant
```

2. Create a C program that prompts the user to enter a month number (1 to 12) and displays the number of days in that month. Consider a non-leap year.

```
//MODULE 2, TUTORIALS - 6
//Switch statement
//2. Create a C program that prompts the user to enter a month number
    (1 to 12) and displays the number of days in that month. Consider
    a non-leap year.

4  #include <stdio.h>
5  int main()
6  {
7      int month;
8
9      printf("Enter a Number:");
10     scanf("%d", &month);
11
12     switch (month)
13     {
14         //January, March, May, July, August, October, December
15         case 1:
16         case 3:
17         case 5:
18         case 7:
19         case 8:
20         case 10:
21         case 12:
22             printf("Number of days: 31\n");
23             break;
24
25         //April, June, September, November
26         case 4:
27         case 6:
28         case 9:
29         case 11:
30             printf("Number of days: 30\n");
31             break;
32
33         //February
34         case 2:
35             printf("Number of days: 28\n");
36             break;
37         default:
38             printf("Invalid Month Number\n");
39     }
40
41     return 0;
42 }
```

Output

```
/tmp/4PdKXhesVe.o
Enter a Number:3
Number of days: 31
```

```
/tmp/4PdKXhesVe.o
Enter a Number:2
Number of days: 28
```

3. Write a C program to convert temperatures between Celsius and Fahrenheit. Ask the user to choose the conversion type (Celsius to Fahrenheit or Fahrenheit to Celsius) and input the temperature. Use a switch case to perform the conversion and display the result.

main.c



Save

Run

```
1 //MODULE 2, TUTORIALS - 6
2 //Switch statement
3 //3. Write a C program to convert temperatures between Celsius and
  Fahrenheit. Ask the user to choose the conversion type (Celsius
  to Fahrenheit or Fahrenheit to Celsius) and input the temperature
  . Use a switch case to perform the conversion and display the
  result.
```

```
4 #include<stdio.h>
5 int main()
6 {
7     int a;
8     float temperature, Converted_Temp;
9
10    printf("Select Type of Conversion:\n");
11    printf("1. Celsius to Fahrenheit\n");
12    printf("2. Fahrenheit to Celsius\n");
13    scanf("%d", &a);
14
15    switch(a)
16    {
17        case 1:
18            printf("Enter the temperature in Celsius: ");
19            scanf("%f", &temperature);
20            Converted_Temp=(9/5)*temperature+32;
21            printf("%f",Converted_Temp);
22            break;
23
24        case 2:
25            printf("Enter the temperature in Fahrenheit: ");
26            scanf("%f", &temperature);
27            Converted_Temp=((temperature-32)*5)/9;
28            printf("%f",Converted_Temp);
29            break;
30
31        default:
32            printf("In valid choice!\n");
33            break;
34    }
35 }
36 }
37
38
```

OUTPUT

Output

```
/tmp/4PdKXhesVe.o
Select Type of Conversion:
1. Celsius to Fahrenheit
2. Fahrenheit to Celsius
1
Enter the temperature in Celsius: 40
72.000000
```