LAB-05

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Switch case statement

The **switch case statement** is used when we have multiple options and we need to perform a different task for each option.

Switch case statement – Syntax

```
switch (variable or an integer expression)
{
    case constant:
    //C Statements
    ;
    case constant:
    //C Statements
    ;
    default:
    //C Statements
    ;
}
```

Switch case statement – Example

```c
#include <stdio.h>
int main()
{
    int num=2;
    switch(num+2)
    {
        case 1:
            printf("Case1: Value is: %d", num);
        case 2:
            printf("Case1: Value is: %d", num);
        case 3:
            printf("Case1: Value is: %d", num);
        default:
            printf("Default: Value is: %d", num);
    }
    return 0;
}
```

Switch case statement –Break statement

```c
#include <stdio.h>
int main()
{
    int i=2;
    switch (i)
    {
        case 1:
            printf("Case1 ");
        case 2:
            printf("Case2 ");
        case 3:
            printf("Case3 ");
        case 4:
            printf("Case4 ");
        default:
            printf("Default ");
    }
    return 0;
}
```

```
Case2 Case3 Case4 Default
```

Solution

```c
#include <stdio.h>
int main()
{
    int i=2;
    switch (i)
    {
        case 1:
            printf("Case1 ");
            break;
        case 2:
            printf("Case2 ");
            break;
        case 3:
            printf("Case3 ");
            break;
        case 4:
            printf("Case4 ");
            break;
        default:
            printf("Default ");
    }
    return 0;
}
```

Task-1

Write a C++ program to input electricity unit charge and calculate the total electricity bill according to the given condition:

- For first 50 units Rs. 0.50/unit
- For next 100 units Rs. 0.75/unit
- For next 100 units Rs. 1.20/unit
- For unit above 250 Rs. 1.50/unit
- An additional surcharge of 20% is added to the bill.

Task-2

Write a program in C to accept a grade and declare the equivalent description using switch-case statement :

Grade	Description
E	Excellent
V	Very Good
G	Good
A	Average
F	Fail

Task-3

Write a program in C++ to read any digit (0-9) and display it in the word using switch-case statement.