

Experiment No-05: Break, Continue, and Switch Statement in C.

Objectives

- Solve various important problems using Loop.
- Comprehend the use of break, continue, and switch statement in C.

Example 1: A C Program to find the reverse of a number.

```
#include <stdio.h>
int main() {
    int n, rev = 0, remainder;
    printf("Enter an integer: ");
    scanf("%d", &n);
    while (n != 0) {
        remainder = n % 10;
        rev = rev * 10 + remainder;
        n /= 10;
    }
    printf("Reversed number = %d", rev);
    return 0;
}
```

Example 2: A C Program to demonstrate the use of break statement.

```
#include<stdio.h>
void main ()
{
    int i;
    for(i = 0; i<10; i++)
    {
        printf("%d ",i);
        if(i == 6) // loop will end when the condition becomes true
            break;
    }
    printf("came outside of loop i = %d",i);
}
```

Example 3: A C Program to demonstrate the use of continue statement.

```
#include<stdio.h>

void main(){
    int i, n=20;
    for(i=1;i<=n;++i){
        if(i % 5 == 0) {
            printf("pass\n");
            continue; /*this continue the execution of loop if i % 5
                        == 0 */
        }
    }
}
```

```
    }  
    printf("%d\n",i);  
}  
}
```

Example 4: A C Program to demonstrate the use of switch statement.

```
#include <stdio.h>  
int main()  
{  
    char ch='B';  
    switch (ch)  
    {  
        case 'A':  
            printf("CaseA");  
            break;  
        case 'A':  
            printf("CaseA");  
            break;  
        case 'B':  
            printf("CaseB");  
            break;  
        case 'C':  
            printf("CaseC ");  
            break;  
        default:  
            printf("Default ");  
    }  
    return 0;  
}
```

*** Please use your reference book of C programming for better understanding the basic syntax of each conditional statements and also include them in your lab report. ***

Practice Exercise

1. Write a C program to enter any number and check whether the number is palindrome or not.
2. Write a C program to find HCF (GCD) of two numbers.
3. Write a C program to find LCM of two numbers.
4. Write a C program to check whether a number is Prime number or not.
5. Write a C program to print all Prime numbers between 1 to n.

6. Write a C program to find sum of all prime numbers between 1 to n.
7. Write a C program to enter any number and print its prime factors.
8. Write a C program to check whether a number is Strong number or not.
9. Write a C program to print Fibonacci series up to n terms.
10. Write a C program to print day of week name using switch case.
11. Write a C program print total number of days in a month using switch case.
12. Write a C program to check whether an alphabet is vowel or consonant using switch case.
13. Write a C program to create Simple Calculator using switch case.

Resources (Link)

[\[break & continue\]](#) [\[Switch\]](#)