



Parshvanath Charitable Trust's  
**A. P. SHAH INSTITUTE OF TECHNOLOGY**  
(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)  
(Religious Jain Minority)

Department of Humanities and Applied Science

Academic Year: 2023-24

Name of Student: Vedant Nagesh Terse

Semester: II

Student ID:23104195

Class / Branch: F.E ALL

Date of Performance: 31/01/2024

Subject: C Programming

Date of Submission: 31/01/2024

Name of Instructor: Prof. [Vandana Virbhadre](#)

---

Experiment No.6

Aim: Write a program that demonstrates "switch" case statements.

Problem Statement:Write a program to implement arithmetic operators in c (Addition, Substraction, multiplication , division and modulo.)

Program:

```
#include<stdio.h>
int main ()
{
    int a ,b ;
    int choice;
    printf("Enter value of a:");
    scanf("%d",&a);
    printf("Enter value of b:");
    scanf("%d",&b);
    printf("1.Addition\n2.substraction\n3.Multiplication\n4.Division\n5.Modulo\n");
    printf("Enter your choice :- ");
    scanf("%d",&choice);
    switch(choice)
    {
        case 1:
            printf("addition of two numbers is %d ", a+b);
            break;
        case 2:
            printf("addition of two numbers is %d ", a-b);
            break;
        case 3:
            printf("addition of two numbers is %d ", a*b);
            break;
        case 4:
            printf("addition of two numbers is %d ", a/b);
            break;
        case 6:
            printf("addition of two numbers is %d ", a%b);
            break;
    }
    return 0;
}
```

Output:-

```
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Desktop/G475/Exp6$ gcc Exp6.c
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/Desktop/G475/Exp6$ ./a.out
Enter value of a:8
Enter value of b:5
1.Addition
2.substraction
3.Multiplication
4.Division
5.Modulo
Enter your choice :- 1
3addition of two numbers is 13 apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:~/
```