Ex No: 4
Date:

Use of Variable in Expression

Aim:

To write a C program to use the variables in expressions and their evaluation.

Algorithm:

i). Star the program.
ii). Get values for a and b.
iii). Calculate $(a+b)^2$ as $((a*a)+(2*a*b)+(b*b))$.
iv). Calculate $(a-b)^2$ as $((a*a)-(2*a*b)+(b*b))$.
v). Display the results.
vi). Stop the program.

Program:

```c
#include<stdio.h>
#include<conio.h>

void main()
{
  int a,b,res1,res2;
  clrscr();
  printf("\nEnter A Value: ");
  scanf("%d",&a);
  printf("\nEnter B Value: ");
  scanf("%d",&b);
  res1 = ((a*a)+(2*a*b)+(b*b));
  res2 = ((a*a)-(2*a*b)+(b*b));
  printf("\n(a+b)2 = %d",res1);
  printf("\n(a-b)2 = %d",res2);
  getch();
}
```

Result:
Thus the C program to use the variables in expressions and their evaluation is executed successfully.

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