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Q.1 Write a Program to Swap two variables using the third variable.
Ans;
#include <stdio.h>
int main() {
int a,b,c;
  printf("\nbefore swapping:a=");
  scanf("%d",&a);
  printf("\nbefore swapping:b");
  scanf("%d",&b);
  c=a;
  a=b;
  b=c:
  printf("\nafter swapping\ta=%d,b=%d",a,b);
o/p;
before swapping:a=20
before swapping:b30
after swapping a=30,b=20
Q.2 Write a Program to Swap two variables without using a third variable.
Ans:
#include <stdio.h>
int main() {
  int a,b;
  printf("\nbefore swapping:a=");
  scanf("%d",&a);
  printf("\nbefore swapping:b=");
  scanf("%d",&b);
  a = a + b;
    b = a - b;
    a = a - b;
  printf("after swapping:a=%d,b=%d ",a,b);
  return 0;
}
o/p;
before swapping:a=20
```

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before swapping:b=10
after swapping:a=10,b=20
Q.3 Write a Program to find the formula's answer (x+y)^2.
Ans:
// Online C compiler to run C program online
#include <stdio.h>
int main() {
  int x,y;
  printf("\n Enter X = ");
  scanf("%d",&x);
  printf("\nEnter Y = ");
  scanf("%d",&y);
 int result = (x + y) * (x + y);
  printf(" x = %d and y = %d answer: %d\n", x, y, result);
  return 0;
}
0/P:
Enter X = 30
Enter Y = 40
x = 30 and y = 40 answer: 4900
Q.4 Write a Program to find the formula's answer (x-y)^2.
ans:
// Online C compiler to run C program online
#include <stdio.h>
int main() {
  int x,y;
  printf("\n Enter X = ");
  scanf("%d",&x);
  printf("\nEnter Y = ");
  scanf("%d",&y);
```

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int result = (x - y) * (x - y);
  printf(" x = %d and y = %d answer: %d\n", x, y, result);
  return 0;
}
0/P:
Enter X = 20
Enter Y = 10
x = 20 and y = 10 answer: 100
Q.5 Write a Program to find the formula's answer (x+y)^3.
ans:
// Online C compiler to run C program online
#include <stdio.h>
int main() {
  int x,y;
  printf("\n Enter X = ");
  scanf("%d",&x);
  printf("\nEnter Y = ");
  scanf("%d",&y);
 int result = (x + y) * (x + y) * (x + y);
  printf(" x = %d and y = %d answer: %d\n", x, y, result);
  return 0;
}
0/P:
Enter X = 10
Enter Y = 20
x = 10 and y = 20 answer: 27000
```