**Q.1 Write a Program to Swap two variables using the third variable.**

**Ans:**

**// Online C compiler to run C program online**

**#include <stdio.h>**

**void 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("\n after swapping\ta=%d,b=%d",a,b);**

**}**

**o/p**

**before swapping:a=50**

**before swapping:b=49**

**after swapping a=49,b=50**

**Q.2 Write a Program to Swap two variables without using a third variable.**

**Ans:**

**// Online C compiler to run C program online**

**#include <stdio.h>**

**void main(){**

**int a,b;**

**printf("\nbefor swapping:a=");**

**scanf("%d",&a);**

**printf("\nbefor swapping:b=");**

**scanf("%d",&b);**

**a=a\*b;**

**b=a+b;**

**a=a-+b;**

**printf("after swapping:a=%d,b=%d",a,b);**

**}**

**o/p**

**befor swapping:a=30**

**befor swapping:b=50**

**after swapping:a=-50,b=1550**

**Q.3 Write a Program to find the formula's answer (x+y)^2.**

**Ans:**

**#include<stdio.h>**

**int main(){**

**int x,y;**

**printf("\nenter x=");**

**scanf("%d",&x);**

**printf("\nenter y=");**

**scanf("%d",&y);**

**int ans=(x+y)\*2;**

**printf("x=%d and y=%d answer %d\n",x,y,ans);**

**}**

**o/p**

**enter x=34**

**enter y=67**

**x=34 and y=67 answer 202**

**Q.4 Write a Program to find the formula's answer (x-y)^2.**

**Ans:**

**#include<stdio.h>**

**int main(){**

**int x,y;**

**printf("\nenter x=");**

**scanf("%d",&x);**

**printf("\nenter y=");**

**scanf("%d",&y);**

**int ans;**

**ans=(x-y)\*2;**

**printf("%d",ans);**

**}**

**o/p**

**enter x=60**

**enter y=25**

**70**

**Q.5 Write a Program to find the formula's answer (x+y)^3.**

**Ans:**

**#include <stdio.h>**

**int main(){**

**int x,y;**

**printf("\nenter x=");**

**scanf("%d",&x);**

**printf("\nenter y=");**

**scanf("%d",&y);**

**int ans;**

**ans=(x+y)\*3;**

**printf("%d",ans);**

**}**

**o/p**

**enter x=60**

**enter y=50**

**330**