

**Ans : The Correct Output of this program is 3000000000, but we got -1294967296 , Because size of "int" is 4 byte (32 bit) which means it can store values from approximately 2,147,483,648 to 2,147,483,647. (232 - 232 -1).  
When we try to assign 3000000000 to an int variable, it causes an overflow. The binary representation of 3000000000 does not fit within the 32-bit limit, leading to incorrect values being stored.  
  
Q2: Code :-**

#include<stdio.h>

int main(){

int a,b,c,d;

printf("Enter the First number :");

scanf("%d",&a);

printf("Enter the Second number :");

scanf("%d",&b);

printf("Enter the Third number :");

scanf("%d",&c);

d=a;

a=c;

c=b;

b=d;

printf("The Value of first number is : %d \n",a);

printf("The Value of Second number is : %d \n",b);

printf("The Value of Third number is : %d \n",c);

return 0;

}

**Q3: Code :-**

#include <stdio.h>

int main() {

float fuelEfficiency, totalFuelCost, fuelConsumed;

float distance\_to\_x = 850.0;

float x\_to\_y = 420.0;

float FuelX = 115.0;

float FuelY = 120.0;

printf("Enter the car's fuel efficiency :- ");

scanf("%f", &fuelEfficiency);

float fuel\_consumed\_x = distance\_to\_x / fuelEfficiency;

float fuel\_consumed\_y = x\_to\_y / fuelEfficiency;

fuelConsumed = fuel\_consumed\_x + fuel\_consumed\_y;

totalFuelCost = (fuel\_consumed\_x \* FuelX) + (fuel\_consumed\_y \* FuelY);

printf("Total fuel consumed: %f litress \n", fuelConsumed);

printf("Total fuel cost: %f Rs", totalFuelCost);

return 0;

}

**Q4: Code :-**

#include<stdio.h>

int main(){

float x1=5,y1=4,x2=3,y2=2,slope;

slope = ((y2-y1)/(x2-x1));

printf("The Slope of the given points is : %f",slope);

return 0;

}

**Q5: Code :-**

#include <stdio.h>

int main() {

float Principal, Interest\_Rate, Interest\_Amount, TotalAmount;

printf("Enter the principal amount: ");

scanf("%f", &Principal);

printf("Enter the interest rate in % : ");

scanf("%f", &Interest\_Rate);

Interest\_Amount = (Principal \* Interest\_Rate) / 100;

TotalAmount = Principal + Interest\_Amount;

printf("Interest earned over a year: %f \n", Interest\_Amount);

printf("Total amount after adding interest: %f \n", TotalAmount);

return 0;

}