EXP 36: FOUR STAGE PIPELINING

#include<stdio.h>  
  
  
void main(){  
  
  
int counter=0;  
  
  
int input;  
  
  
int num1,num2;  
  
  
int op;  
  
  
int res;  
  
  
int ins;  
  
  
int performance\_measure=0;  
  
  
printf("\n Enter 1st value:  
");  
  
  
scanf("%d",&num1);  
  
  
counter+=1;  
  
  
printf("\n Enter the 2nd  
value: ");  
  
  
scanf("%d",&num2);  
  
  
counter+=1;  
  
  
printf("\n Enter the option:  
\n1)Addition\n2)Subraction\n3)Multiplication\n4)Division");  
  
  
scanf("%d",&op);  
  
  
switch(op){  
  
  
case 1:  
  
  
                printf("Performing  
addition operation");  
  
  
                res=num1+num2;  
  
  
                counter+=1;  
  
  
                break;  
  
  
case 2:  
  
  
                printf("Performing  
subraction operation");  
  
  
                res=num1-num2;  
  
  
                counter+=1;  
  
  
                break;  
  
  
case 3:  
  
  
                printf("Performing  
multiplication operation");  
  
  
                res=num1\*num2;  
  
  
                counter+=1;  
  
  
                break;  
  
  
case 4:  
  
  
                if(num2==0){  
  
  
                printf("\n  
Denominator can't be zero");  
  
  
                }  
  
  
                else{  
  
  
                printf("Performing  
division operation");  
  
  
                res=num1/num2;  
  
  
                counter+=1;  
  
  
                break;  
  
  
                }  
  
  
default:  
  
  
                printf("Invalid  
case...");  
  
  
                counter+=3;  
  
  
                break;  
  
  
}  
  
  
printf("\n CYCLE VALUE IS :  
%d",counter);  
  
  
printf("Enter the  
no.instruction");  
  
  
scanf("%d",&ins);  
  
  
performance\_measure=ins/counter;  
  
  
printf("\n Performance  
Measure is: %d",performance\_measure);  
  
  
}

OUTPUT:

