***16.4 STAGE PIPELINING***

*#include<stdio.h>*

*int 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);*

*}*

