**ASSIGNMENT**

#include <stdio.h>

#include <unistd.h>

int main() {

int a[10] = { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 };

int sumOdd = 0, sumEven = 0, n, i;

n = fork();

// Checking if n is not 0

if (n > 0) {

for (i = 0; i < 10; i++) {

if (a[i] % 2 == 0)

sumEven = sumEven + a[i];

}

printf("Parent process\n");

printf("Sum of even numbers is %d\n", sumEven);

}

// If n is 0 i.e. we are in the child process

else {

for (i = 0; i < 10; i++) {

if (a[i] % 2 != 0)

sumOdd = sumOdd + a[i];

}

printf("Child process\n");

printf("Sum of odd numbers is %d\n", sumOdd);

}

return 0;

}