QUESTION:07

#include<stdio.h>

#include<sys/types.h>

#include<unistd.h>

void fork()

{

int x = 1;

if (fork() == 0)

printf("Child has x = %d\n", ++x);

printf("Noninteractive process ")

else

printf("Parent has x = %d\n", --x);

printf("Interactive Process")

}

int main()

{

fork();

return 0;

QUESTION:20

#include<stdio.h>

#include<stdbool.h>

struct requirement

{

bool pen= 0;

bool paper = 0;

bool question\_paper=0;

bool all\_three=0;

};

int main()

{

int n=3;

struct reqirement s[n];

s[0].pen=1; // first student has pen

s[1].paper=1; // second student has paper

s[2].question\_paper=1; // third student has question paper

while(s[0].all\_three==0||s[1].all\_three==0||s[2].all\_three==0)

{

char ch1,ch2;

printf("Menu: \n1.pen\n2.paper\n3.question paper\n Enter the two things which is to be placed on the shared table");

scanf("%c%c",&ch1,&ch2);

if(ch1=='1' && ch2=='2' && s[2].all\_three==0)

{

s[2].all\_three=1;

printf("Student three has completed the task");

}

if(ch1=='2' && ch2=='3's[0].all\_three==0)

{

s[0].all\_three=1;

printf("Student one has completed the task");

}

if(ch1=='1' && ch2=='3's[1].all\_three==0)

{

s[1].all\_three=1;

printf("Student second has completed the task");

}

}

printf("All students completed the task");

return 0;

}

QUESTION 20

#include<stdio.h>

#include<stdbool.h>

struct requirement

{

bool pen= 0;

bool paper = 0;

bool question\_paper=0;

bool all\_three=0;

};

int main()

{

int n=3;

struct reqirement s[n];

s[0].pen=1; // first student has pen

s[1].paper=1; // second student has paper

s[2].question\_paper=1; // third student has question paper

while(s[0].all\_three==0||s[1].all\_three==0||s[2].all\_three==0)

{

char ch1,ch2;

printf("Menu: \n1.pen\n2.paper\n3.question paper\n Enter the two things which is to be placed on the shared table");

scanf("%c%c",&ch1,&ch2);

if(ch1=='1' && ch2=='2' && s[2].all\_three==0)

{

s[2].all\_three=1;

printf("Student three has completed the task");

}

if(ch1=='2' && ch2=='3's[0].all\_three==0)

{

s[0].all\_three=1;

printf("Student one has completed the task");

}

if(ch1=='1' && ch2=='3's[1].all\_three==0)

{

s[1].all\_three=1;

printf("Student second has completed the task");

}

}

printf("All students completed the task");

return 0;

}