Operating System Course

Assignment 2

Credentials:

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Question 1:

#include<iostream>

#include<stdio.h>

#include<stdlib.h>

#include<unistd.h>

#include<sys/types.h>

#include<sys/wait.h>

using namespace std;

int main()

{

if(fork()!=0)

{

wait(NULL);

exit(1);

}

else

{

int num, num1, singleDigit, rev = 0;

cout << "Input a number: ";

cin >> num1;

num = num1;

do

{

singleDigit = num1 % 10;

rev = (rev \* 10) + singleDigit;

num1 = num1 / 10;

} while (num1 != 0);

if (num == rev)

cout << " Entered number is a palindrome";

else

cout << " Entered number is not a palindrome";

}return 0;

}

Graphical user interface, text

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Text

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Question 2:

#include<stdio.h>

#include<stdlib.h>

#include<unistd.h>

#include<sys/types.h>

#include<sys/wait.h>

int main()

{

pid\_t pid\_1,pid\_2;

pid\_2=getpid();

pid\_1=fork();

if(fork()!=0)

{

printf("I am parent and my ID is = %d",pid\_2);

printf(" I am child and my ID is = %d\n",pid\_1);

}

else

{

printf("I am child and ID is = %d",pid\_1);

printf(" I am parent and ID is = %d\n",pid\_2);

}return 0;

}

Text

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Question 3:

#include <stdio.h>

#include <unistd.h>

#include <sys/types.h>

#include <sys/wait.h>

#include <stdlib.h>

int main()

{

char string1[20];

char string2[20];

printf("Input file name to copy from: ");

scanf("%s", str1);

printf("Input file name to copy to: ");

scanf("%s", str2);

char \*args[] = { "cp", string1,string2 };

int pid = fork();

if (pid > 0)

{

wait(NULL);

printf("\nChild process has been completed and terminated...\n");

exit(0);

}

else if (pid == 0)

{

execlp(args[0],args[0], args[1], args[2], NULL);

}

else //error

{

printf ("\n Fork function Failed\n");

return 1;

}

return 0;

}

Graphical user interface, text, application

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