Computer program for assignment 4 question-9:

#include<stdio.h>

int main() {

int choice;

printf("Welcome to calculi-the calculator!\n choose any of the following operations you wanna execute by entering integer from 1 to 4.\n 1. factorial\n 2.Floyd triangle\n 3.finding prime numbers\n 4. finding if a number is even.");

scanf("%d",&choice);

if (choice==1)

{

printf("Enter an integer: ");

int n, i=1;

scanf("%d", &n);

long fact = 1;

// shows error if the user enters a negative integer

if (n < 0)

printf("Error! Factorial of a negative number doesn't exist.");

else {

while ( i <= n) {

fact \*= i;

i++;

}

printf("Factorial of %d = %llu", n, fact);

}

}

if(choice==2)

{

int i,c,n,a;

printf("Enter an integer:");

scanf("%d", &n);

for (i = 1; i <= n; i++)

{

for (c = 1; c <= i; c++)

{

printf("%d ",a); // Please note space after %d

a++;

}

printf("\n");

}

}

else if(choice==3)

{

int num,i,count,n;

printf("Enter max number till which you want: ");

scanf("%d",&n);

for(num = 1;num<=n;num++){

count = 0;

for(i=2;i<=num/2;i++){

if(num%i==0){

count++;

break;

}

}

if(count==0 && num!= 1)

printf("%d\n",num);

}

}

else if(choice==4)

{

int number;

printf("Enter a number:");

scanf("%d",&number);

int mod=number%2;

(mod==0)?printf("yes even"):printf("not even");

}

return 0;

}