

Test 4(for loop)

Q1

//range of factors

#include<stdio.h>

void main(){

int s,e;

printf("Enter the start:");

scanf("%d",&s);

printf("Enter the end:");

scanf("%d",&e);

//outer for loop for each ele

for(int i=s;i<=e;i++){

//

printf("factors of %d:\t",i);

for(int j=1;j<=i;j++){

{

if(i%j==0){

printf("%d\t",j);

}

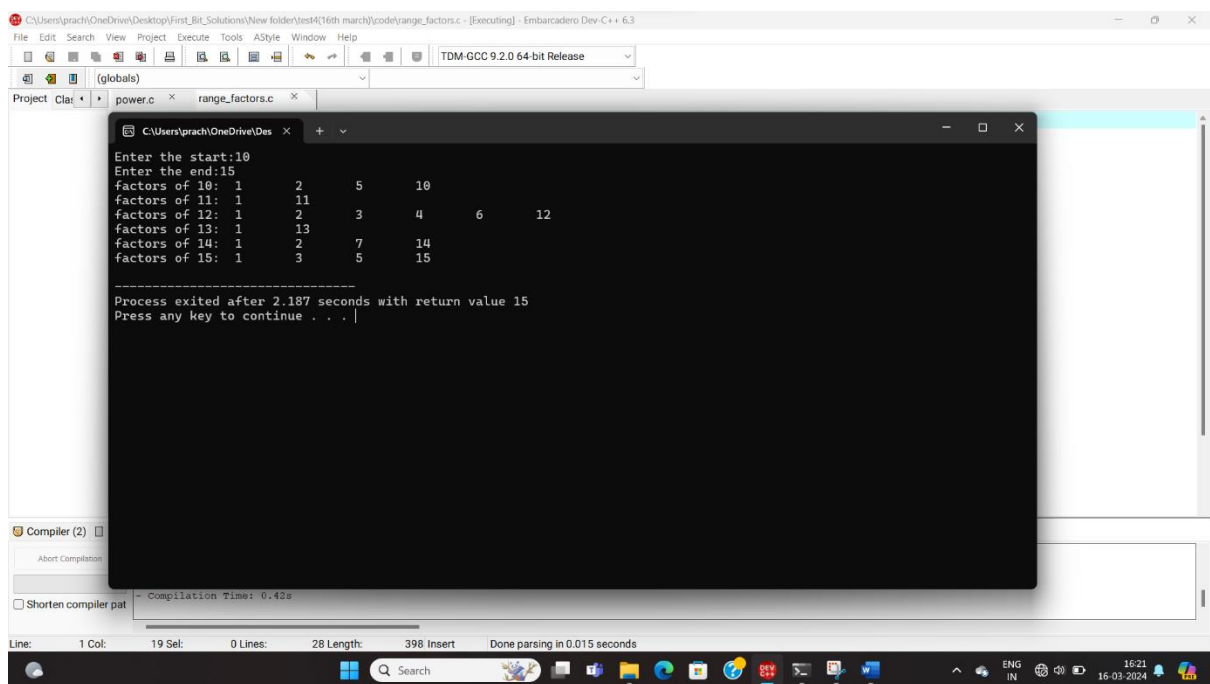
}

printf("\n");

}//end of outer loop

}

Op



```
C:\Users\prach\OneDrive\Desktop\First_Bit_Solutions\New folder\test4\16th march\code\range_factors.c - [Executing] - Embarcadero Dev C++ 6.3
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Clae power.c range_factors.c
C:\Users\prach\OneDrive\Des
Enter the start:10
Enter the end:15
factors of 10: 1 2 5 10
factors of 11: 1 11
factors of 12: 1 2 3 4 6 12
factors of 13: 1 13
factors of 14: 1 2 7 14
factors of 15: 1 3 5 15
-----
Process exited after 2.187 seconds with return value 15
Press any key to continue . . .
Compiler (2)
Abort Compilation
Shorten compiler pat - Compilation Time: 0.42s
Line: 1 Col: 19 Sel: 0 Lines: 28 Length: 398 Insert Done parsing in 0.015 seconds
16-03-2024 16:21
```

Q2

```
//power
```

```
#include<stdio.h>
```

```
void main(){
```

```
    int num,power,res=1;
```

```
    printf("Enter the num:");
```

```
    scanf("%d",&num);
```

```
    printf("Enter the power:");
```

```
    scanf("%d",&power);
```

```
    int p=power;
```

```
    while(power!=0){
```

```
        res=res*num;
```

```
        power--;
```

```
    }
```

```
    printf("%d to the power %d is %d",num,p,res);
```

}

Op

The screenshot shows an IDE window titled "power.c" with the following code:

```
1 //power
2
3 Enter the num:2
4 Enter the power:4
5 2 to the power 4 is 16
6
7 -----
8 Process exited after 2.984 seconds with return value 22
9 Press any key to continue . . .
```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a status bar at the bottom showing "Line: 7 Col: 5 Sel: 0 Lines: 18 Length: 288 Insert Done parsing in 0.015 seconds". The Windows taskbar at the bottom shows the date and time as 16:11 on 16-03-2024.