

Introduction to Programming

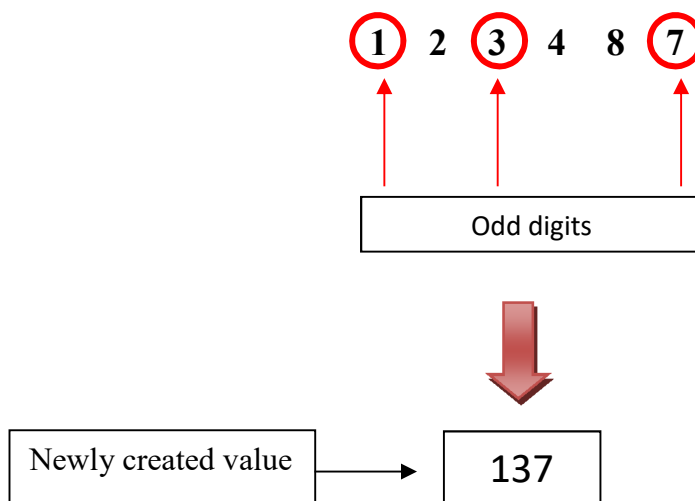
Assignment I

Question 1

Write a C++ program that takes a integer number from outside, then takes every odd digit from this number and use them to create a new integer value. New value must be printed onto the screen.

Sample:

Let's assume the number taken from keyboard is 123487



Sample Output Screen

```
(Enter a number)    Bir sayi giriniz...:123487
( Odd Numbers )    Tek sayilar.....:137
Press any key to continue . . .
```

Sample Program Video

<http://kayhanayar.com/dersler/programlamayagiris/2016/soru1.gif>

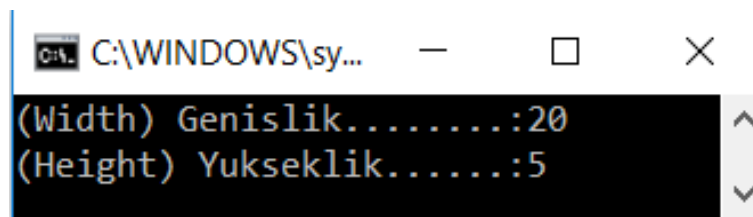
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Question 2

Write a C++ program that draws a rectangle by using “*” symbol . Width and height of the rectangle must be asked from the users.

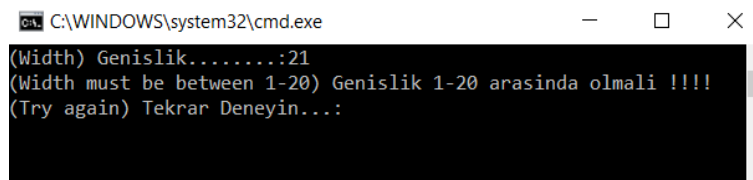
Details

1. Height and Width values must be taken from outside (Just like the Picture in below)



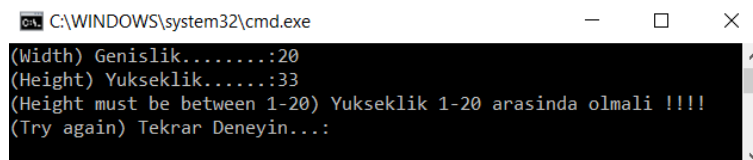
```
C:\WINDOWS\sy...
(Width) Genislik.....:20
(Height) Yukseklik.....:5
```

2. Width value must be between 1-20 otherwise your program must print out an error and ask the value again.



```
C:\WINDOWS\system32\cmd.exe
(Width) Genislik.....:21
(Width must be between 1-20) Genislik 1-20 arasinda olmali !!!!
(Try again) Tekrar Deneyin...
```

3. Height value must be between 1-20 otherwise your program must print out an error and ask the value again.



```
C:\WINDOWS\system32\cmd.exe
(Width) Genislik.....:20
(Height) Yukseklik.....:33
(Height must be between 1-20) Yukseklik 1-20 arasinda olmali !!!!
(Try again) Tekrar Deneyin...
```

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4. After right values have been given your program should print out two rectangle just like below by using “*” symbols .

```
(Width) Genislik.....:20
(Height) Yukseklik.....:5
```

Height (5 “*”)

Width (20 “*”)

Sample Program Video

<http://kayhanayar.com/dersler/programlamayagiris/2016/soru2.gif>

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BASIC FORMATTING RULES

Every C++ source code file must have a comment section(shown in below) that describe the Project. Every file missing this block will cost 10 point in assignment grade result (**do not copy this block directly from pdf**)

```

/*****
**
**          SAKARYA ÜNİVERSİTESİ
**          BİLGİSAYAR VE BİLİŞİM BİLİMLERİ FAKÜLTESİ
**          BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ
**          PROGRAMLAMAYA GİRİŞİ DERSİ
**
**          NAME.....:
**          STUDEN NUMBER.:
*****/

```

Variable names should mean something.

TRUE
<pre>int a;</pre>

FALSE
<pre>int oddCount;</pre>

After every semicolon code should have a empty space. You can use a tab button.

TRUE
<pre>if(true) { int a =6; cout<<"Merhaba"; if(false) cout<<"Nasilsin"; }</pre>

FALSE
<pre>if(true) { int a =6; cout<<"Merhaba"; if(false) cout<<"Nasilsin"; }</pre>

In every loop and decision you should write a comment block that explains block.

YANLIŞ
<pre>int t = 0; for(int i=0;i<100;i++) t+=i;</pre>

DOĞRU
<pre>int toplam = 0; //1 den 100 e kadar olan sayılar toplanıyor for(int i=0;i<100;i++) toplam+=i;</pre>

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Submission Rules

FILES THAT NEED TO UPLOADED SCHOLOGY

Files Names: StudentNumber_QuestionNumber.cpp

- For Instance let's assume student number b000110002;
 - **b000110002_Question1.cpp** (File name for Question 1)
 - **b000110002_Question2.cpp** (File name for Question 2)

COMPILER VE LAST SUBMISSION DATE

Assignment will be compile by using visual C++ 2015.

Mistakes made in file name will cost 20 point.

Late submitted assignments will not be graded

Teslim saati gün sonu saat 24.10.2016 23.59 dür.

DONT SHARE CODE

This assignment must be done alone. You must not share your code with any student or take code from somebody else. Every assignment will be compared by a software that can detect plagiarism. Any assignment that violate this rule will not be graded.

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