

Lab#15
Object oriented programming.
31/01/2023

Task#01

Write a class with a function that takes an array of 5 elements from the user. Analyze it and separate even and odd numbers. Save even numbers in **"Even.txt"** and odd numbers in **"Odd.txt"**.

Task#02

Write a C++ program that takes employee name, age, ID number from user. If age is greater than 25 and the ID number has 4 digits then store it on file else it shows an error message.



```
Microsoft Visual Studio Debug Console
Enter your 4-digit ID Number:6923
Enter the Name:kate
Enter your age:85
7856   afsah   35
8899   john    69
6923   kate    85

C:\Users\afsah\source\repos\try\x64\Debug\try.exe (process 20804) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```



```
Microsoft Visual Studio Debug Console
Enter your 4-digit ID Number:1123
Enter the Name:ali
Enter your age:22

Error!Please enter valid age.

C:\Users\afsah\source\repos\try\x64\Debug\try.exe (process 15196) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

Task#03

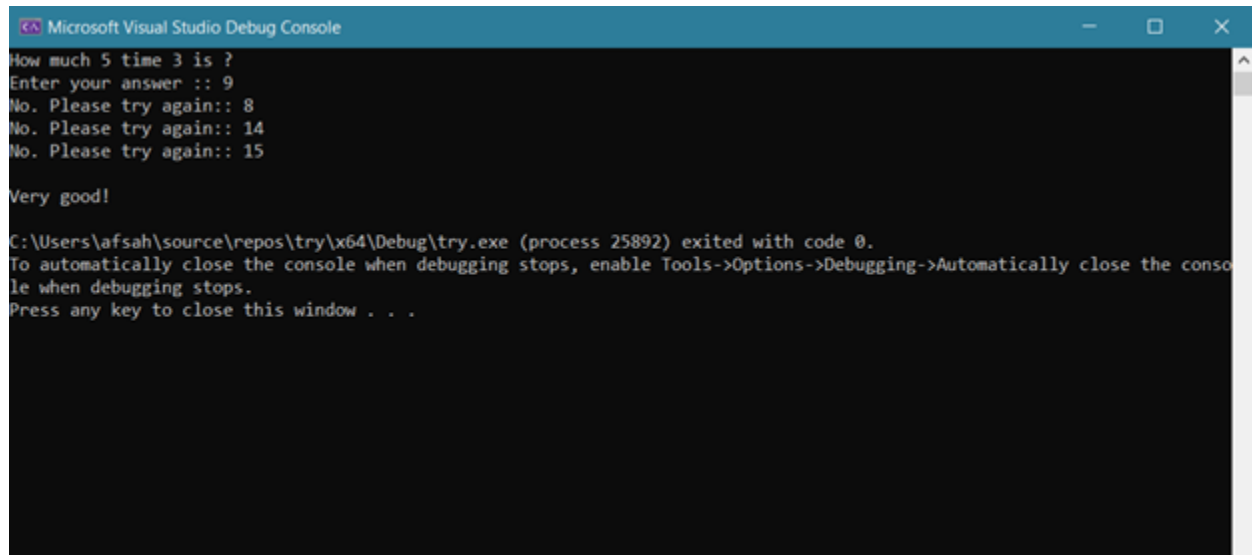
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(Computer-Assisted Instruction) The use of computers in education is referred to as computer-assisted instruction (CAI). Write a program with a class that will help an elementary school student learn multiplication. Use the rand function to produce two positive one-digit integers. The program should then prompt the user with a question, such as How much is 6 times 7? The student then inputs the answer. Next, the program checks the student's answer. If it's correct, display the message "Very good!". If the answer is wrong, display the message "No. Please try again." and let the student try the same question repeatedly until the student finally gets it right. If the student enters the correct answer then write both the question and answer on file.

Hint: To generate one digit random number use

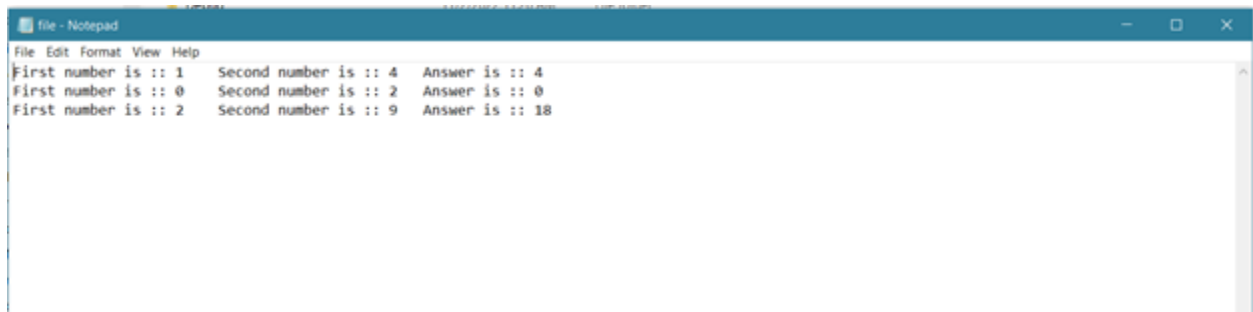
```
srand(time(0));
```

```
rand() % 10;
```

A screenshot of the Microsoft Visual Studio Debug Console window. The window has a title bar with the text "Microsoft Visual Studio Debug Console" and standard window controls (minimize, maximize, close). The console output shows the following text: "How much 5 time 3 is ?", "Enter your answer :: 9", "No. Please try again:: 8", "No. Please try again:: 14", "No. Please try again:: 15", and "Very good!". Below this, it shows the program's exit message: "C:\Users\afisah\source\repos\try\x64\Debug\try.exe (process 25892) exited with code 0." followed by instructions: "To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops." and "Press any key to close this window . . .".

```
Microsoft Visual Studio Debug Console
How much 5 time 3 is ?
Enter your answer :: 9
No. Please try again:: 8
No. Please try again:: 14
No. Please try again:: 15
Very good!
C:\Users\afisah\source\repos\try\x64\Debug\try.exe (process 25892) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

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```
File - Notepad
File Edit Format View Help
First number is :: 1 Second number is :: 4 Answer is :: 4
First number is :: 0 Second number is :: 2 Answer is :: 0
First number is :: 2 Second number is :: 9 Answer is :: 18
```

Task#04

Implement the following class diagram, write appropriate main functions, make objects and call all the methods to display the proper outputs. Use operator overloading instead of function calling where required.

