PROBLEM 8 (28.09.16)

1. Write function for finding smallest factor of a given number.
2. Write function to find sum of all odd factors of a given number.
3. Write function to find the location of the biggest integer for a given number.
4. Write function to find the first number of a given number of flexible size.
5. Write function to replace the kth digit by 9. Take k as input.
6. Write function, which reads a number. If it is even then output its square. If it is odd then output its cube. Input 4 output 16. Input 5 output 125.
7. Write function to exchange the digits before and after decimal point.
8. Write a function to check whether there is any prime number whining an interval.
9. Write a function to find the product of all odd factors of a given number.
10. Define function, which will return numbers after deleting even and odd digits. input 325768175 output 357175 and 268.
11. Define function, which finds how many digits are more than 5 and how many are less than 7. Input 2356781 output 3 and 5.
12. Define function, to find all numbers those are multiple of 7 within the given range.
13. Define function, to find all numbers those are multiple of 7 and 3 both within the given range.
14. Define function, to find all numbers those are multiple of 7 but not multiple of 3 within the given range.
15. Write function, which reads a number and outputs the sum of x^y. Here x and y are consecutive digits. Input 81924 output $8^1 + 1^9 + 9^2 + 2^4 = 8+1+81+16 = 106$.
16. Write function to find difference between the last and first digit of a given number of flexible size.
17. Write function to find the weighted sum of digits. ws(1347)=4*1+3*3+2*4+1*7=38.
18. Write program, which reads a, b and c as sides of a triangle and prints area with a function *area*.
19. Write a program with the functions *mean ( )* and *standard deviation ( )* which will calculate the mean and standard deviation of k numbers and the program should have a function *print( )* to print the values of numbers, mean and standard deviation. Do not use array.
20. Write functions to find binary from decimal and vice versa.