Practical Number	05
Areas covered	Iteration control structure

Section A

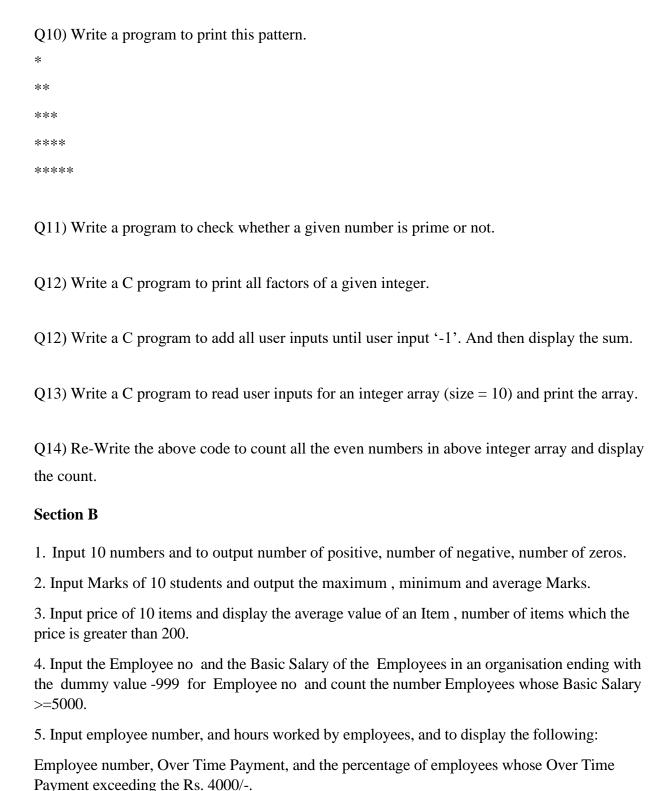
Q1) Write a C program to print numbers from 0 to 100. (You are required to write 3 separate
answers each using While, DoWhile, For, looping structures).

Q2) Write a C program to calculate and print the total of 10 marks and the average. If the average is less than 50 program should print "Fail!" otherwise "Pass!"

Q3) Write a C program to calculate factorial of a user given number.

Hint:

- ☐ Select an appropriate looping structure.
- \Box Factorial of '0' is '1' (0! = 1)
- \Box Ex: factorial of number 5 is calculated as 5! = 5*4*3*2*1
- Q4) Write a C program to calculate the sum of all digits of a user given number.
- \Box If user input 123 your program should output 6. (calculated as 1+2+3)
- Q5) Write a C program to reverse the digits of a number using *do-while* statement.
- Q6) Write a C program to calculate nth power of a given integer. The user input base and exponent. (Do NOT use inbuilt functions, instead use a loop)
- Q7) Write a C program to print first 10 numbers of "Fibonacci Sequence".
- Q8) Write a C program to check whether a given number is an Armstrong Number! (Refer to previous flowcharts)
- Q9) Write a C program to print all the ASCII values for letters A to Z.



The user should input –999 as employee number to end the program, and the normal Over Time Rate is Rs.150 per hour and Rs. 200 per hour for hours in excess of 40.