

Class XII

Assignment-5

Sub: Computer Science

Q1. Write a function in C++ that counts the number of words in a long string where each word is separated by atleast one blank space and the string terminates with a period.

Q2. Write a function in C++ to find the sum of the following series:
 $1+2+3+4+5+6+\dots$ upto N terms.

Q3. Write a function in C++ to find the sum of the following series:
 $1^2+3^2+5^2+7^2+9^2+\dots$ upto n terms.

Q4. Write a function in C++ to find the sum of the following series:
 $(1)+(1+2)+(1+2+3)+(1+2+3+4)\dots$ Upto n terms.

Q5. Write a function in C++ to find the sum of the following series:
 $(2^2)+(2^2+4^2)+(2^2+4^2+6^2)+(2^2+4^2+6^2+8^2)\dots$ Upto n terms.

Q6. Write a function in C++ to find the sum of the following series:
 $1/1^2+1/3^2+1/5^2+1/7^2+\dots$ upto n terms

Q7. Write a C++ function having two value parameters X and N with result type float to find the sum of series given below:
 $1+X^1/2! + X^2/3!+\dots+X^n/(N+1)!$

Q8. Write a program to print the truth table for $XY + Z$.

Q9. Write a C++ function that converts a decimal numbers between 0 to 63 into a 8-bit binary number and prints the binary equivalent.

Q10. Write a program in C++ to print first 10 multiples of an integer N, where N is to be entered by user.