SERIES QUESTIONS

Q1. 1+2+3+4+5+.....N terms

Q2. 1+3+5+7+9+.....N terms

Q3. 2+4+6+8+10+.....N terms

Q4. 1-2+3-4+5+.....N terms

Q5. 2-4+6-8+.....N terms

Q6. 1!+2!+3!+4!+5!.....N terms

Q7. 1!+3!+5!+7!+.....N terms

Q8. 2!+4!+6!+8!+.....N terms

Q9. x+x2+x3+x4+.....xn (N terms)

Q10. x+x3+x5+x7+.....x(n+2) (N terms)

Q11. x/1!+x2/2!+x3/3!+.....xn/n! (N terms)

Q12. x/1!+x/3!+x/5!+.....x/n! (N terms)

Q13. 1+1+2+3+5+8+.....N terms

Q14.(1)+(1+2)+(1+2+3)+.....(1+2+3+.....n)(N terms)

Q15. 1⁄2+2⁄3+3⁄4+4／5+.....N terms

Q16. 1⁄8+4/12+7/16+.....N terms

Q17. x+x2/2+x3/3+.....N terms

Q18.12+32+52+72+.....N terms

Q19. 22+42+62+.....N terms

Q20. 1 3 7 15 31 63 127 .....N terms

(every term 2n-1)

Q21. Write a program to find the sum of the first ten odd Numbers

Q22. Write a program to display all prime numbers between 10 to 100.

Q23.Write a program to input a number and then display all prime no.s up to the number entered.

Q24.Display the following patterns:

PATTERN - 1

```
      2
    2 2
  2 2 2
 2 2 2 2
2 2 2 2 2
```

PATTERN - 2

```
1
12
123
1234
12345
1234
123
12
1
```

PATTERN - 3

```
    1
  2 2
 3 3 3
4 4 4 4
5 5 5 5 5
4 4 4 4
 3 3 3
  2 2
   1
```

Q 25. Write a program to find the sum of the series:

$$1 + x + x^2 + x^3 + x^4 + ...x^n$$

Where x and n are entered by the user.