

4. Write a program to find value of  $\sin(x)$  using expansion series given below by using a function : (20 marks)

$$\sin(x) = x - x^3/3! + x^5/5! - x^7/7! \dots$$

5. Write a program to print the following output by using a function: (10 marks)

```
1
121
12321
1234321
123454321
12345654321
1234567654321
123456787654321
12345678987654321
```

6. Write a program that gets the quadratic equation coefficient (a,b,c) and then passes them to a function. The function solves the *quadratic equation* ( $ax^2+bx+c=0$ ) and displays the amount x1 and x2 (10 marks)