

Practical – 4 Conditional Statements, Loops and Function

1. A bank needs to validate authentication of the customers who have their accounts in it .Verification has to be done by analyzing the details entered by the customers; i.e. bank should identify whether the details provided by customer are correct or not ? Also depending on user age details , it should provide the future savings schemes .

Note: Check the previous enter detail data type compare with required data (Like Name, Address, Contact no, Pin code, Hobbies, Life goal) .Create multiple user account and check user enter name and their age category. If kid guide for education camps schemes , if teenager provide educational scholarship scheme and is middle aged guide for retirement plans.

2. Pangrams are words or sentences containing every letter of the alphabet at least once. A student is asked to to check whether a string is a pangram or not . Help him to do so.

For example: "The quick brown fox jumps over the lazy dog".

3. (*Financial application: loan amortization schedule*) The monthly payment for a given loan pays the principal and the interest. Write a program that lets the user enter the loan amount, number of years, and interest rate, and then displays the amortization schedule for the loan.

Here is a sample run:

Loan Amount:10000

Number of Years:1

Annual Interest Rate:7

Monthly Payment: 865.26

Total Payment: 10383.21

Payment#	Interest	Principal	Balance
1	58.33	806.93	9193.07
2	53.62	811.64	8381.43
...			
11	10.00	855.26	860.27
12	5.01	860.25	0.01

Note:

The balance after the last payment may not be zero. If so, the last payment should be the normal monthly payment plus the final balance.