

PUSASQF406
Advanced Application of Excel

Time: 2 hours
Total Marks: 60 marks

Note:

- 1. All subs and functions should be written in the workbook itself and the excel file should be saved as an .xlsm file and submitted.**
- 2. Kindly use comments in your code to indicate the question number as well as any explanation that you wish to provide.**
- 3. PLEASE MAKE A BACK_UP COPY OF the EXCEL SHEET SO THAT AN ERRONEOUS MACRO DOES NOT RESULT IN YOUR WORK BEING DELETED**

Q1. Question 1 pertains to Sheet 1:

A)

5 Marks

Write a macro that will color-
Color cells having values greater than 80 in one color and those having less than 50 with another.

B)

5 Marks

Write a macro that will determine whether a student has passed/fail based on the scores given in D column. The criteria is if the average score greater than 50 then the student pass otherwise fail

C)

5 Marks

Write an event driven macro in Sheet1 which will format the data in the sheet when double clicked.

Bold the headers

& center alignment for the whole data.

Q2. Question 2 pertains to Sheet 2:

A)

5 Marks

Write a macro that will unhide any rows that are hidden.

B)

5 Marks

Write a macro that will calculate the total price of the products given that it is a mobile/AC in cell C9.

C)

5 Marks

Write a macro where a MsgBox will pop up saying: "Are you done with work?" with yes and no buttons, if the answer is "Yes" then the workbook will get saved.

Q3. Please solve either part A or B.

30 Marks

Q3A

- a) Make a MsgBox with vbYesNo argument (display answer button: yes and no) asking if the user has a specific name. The msgbox should say "Is your name _____?"

The name should be the username that is used in excel. (Application.UserName)

If the answer is yes, then a MsgBox saying "I am a fortune teller! ;-)" should pop up.

If the answer is no, then an InputBox should allow the user to change the name. It should ask "What is your name?" Subsequently, use this new input to create a new MsgBox.

This MsgBox should say "Sorry for my mistake inputted Name! Will not occur again. Forgive?!" (Display answer button: yes and no)

If yes then MsgBox should say "Thank you very much, sir!"

If no then "The mistake is really unforgivable! We're sorry." (10)

- b) Write a macro that will calculate whether a student has passed/fail the exams.

There were 3 exams, the macro will take the score of each exam using inputBox one after the other. The exam score cannot be greater than 10 or less than 0, and has to be a whole value, build a check for this, i.e., if either of the condition isn't fulfilled then a msgbox will appear saying "Invalid input! Number greater than 10 or smaller than 0 or not numeric" The inputBox should be present until a suitable value is inputted and only then it should ask for the next exam's score.

The criteria to pass a student is based on weighted average calculation.

The weights are 3 for test 1, 5 for test 2 and 7 for test 3, if the weighted average is greater than equal to 5 then a msgbox will appear stating "Student was approved with final grade ____" otherwise the msgbox will state "Student failed and obtained final grade ____" (10)

- c) In sheet3, you are given first names of people, you have to write a macro that will rewrite the name in B column having first letter in uppercase, Eg if it is given john then in B column it becomes John. (10)

OR

Q3B

Create a userform called ballot box

30 Marks

the following buttons

Button	Functionality
Candidate A	Calculates the number of votes that A has gotten in the election and pops a msgbox saying "Thanks for your vote!"
Candidate B	Calculates the number of votes that B has gotten in the election and pops a msgbox saying "Thanks for your vote!"
Stop Voting	Declares the results. If the number of votes received by A are greater than B then a msgbox appears "Candidate A has won!" similarly for B and if equal votes then "Voting equaled." And it also puts the number of votes for A & B as zero