

NOTE, you can answer either in finnish or in english.

1. Give short definitions (2 points each)

- a) Resource (.rss) file
- b) Cleanup stack
- c) Two phase construction
- d) Descriptors

2. Answer

- a) What makes error handling in mobile devices even more important than in stationary computers? (3 p.)
- b) Explain the Symbian error handling mechanism and give an example. (4 p.)

3. Symbian security. Explain

- a) The significance (benefits) of the signing procedure (3 p.)
- b) How would you get your symbian application signed? (3 p.)

4. Explain what happens in the following piece of code (5 p.)

```
case ECommand3:
{
    TBuf <40> strOriginal;
    CAknTextQueryDialog* dlg = new(ELeave)
CAknTextQueryDialog(strOriginal, CAknQueryDialog::ENoTone);

    CleanupStack::PushL(dlg);
    dlg->ExecuteLD(R_REVERSED_DIALOG);
    CleanupStack::Pop(dlg);

    TBuf <30> reversed = CFibonacciAppUi::Reverse(strOriginal);
    CAknInformationNote* informationNote;
    informationNote = new ( ELeave ) CAknInformationNote;
    informationNote->ExecuteLD(reversed);
    break;
}
```

5. The following resource belongs to an application from which the previous code was taken. It has some errors, locate them and show how you would correct them (4 p.)

```
RESOURCE DIALOG R_REVERSED_DIALOG
{
    flags = EGeneralQueryFlags;
    buttons = R_AVKON_SOFTKEYS_OK_EMPTY;
    items =
    {
        DIALOGLINE
        {
            typo = EAknCtQuery;
            id = EGeneralQuery
            control = AVKON_DATA_QUERY
            {
                layout = EDataLayout;
                label = "Input a string...";
                control = edwin
                {
                    flags = EEikEdwinNoHorizScrolling | EEikEdwinResizable;
                    width = 25;
                    lines = 1;
                    maxlength = 20;
                };
            };
        };
    };
};
```

Thanks for taking this course, I hope you learned something about Symbian programming, I know that I did.

Please, give feedback, either using the paper form attached or in Kampusnet.

Good luck!