How to generate a temporary file name

QUESTION

I am trying to find a function that will generate a temporary filename. I know that there is the *GetTempFilename* function, but I don't have any examples on how to use it.

Answer 1

```
procedure TForm1.Button1Click(Sender: TObject);
var

TempFile: array[0..MAX_PATH - 1] of Char;
TempPath: array[0..MAX_PATH - 1] of Char;
begin

GetTempPath(MAX_PATH, TempPath);
if GetTempFileName(TempPath, PChar('abc'), 0, TempFile) = 0 then
    raise Exception.Create(
        'GetTempFileName API failed. ' + SysErrorMessage(GetLastError)
    );
ShowMessage(TempFile);
end;
```

Note that this would actually create the temp file in the windows temp folder. Check online help for *GetTempFileName*, *uUnique* parameter for details.

Tip by Jack Sudarev

Answer 2

```
function MyGetTempFile(const APrefix: string): string;
var
   MyBuffer, MyFileName: array[0..MAX_PATH] of char;
begin
   FillChar(MyBuffer, MAX_PATH, 0);
   FillChar(MyFileName, MAX_PATH, 0);
   GetTempPath(SizeOf(MyBuffer), MyBuffer);
   GetTempFileName(MyBuffer, APrefix, 0, MyFileName);
   Result := MyFileName;
end;
```

Usage:

```
const
  MyPrefix: String = 'abc';

MyTempFile := MyGetTempFile(MyPrefix);
```

Tip by Andrei Fomine

Answer 3

Pass in the path and filename you want for the first parameter and your extension as the second. If you want the file to always be myfile1.tmp rather than myfile.tmp leave the last parameter, otherwise set it to false. E.g. to create a file like c: \Tempdir\MyTempFile2000.tmp do

```
sNewFileName := CreateNewFileName('C:\TempDir\MyTempFile','.tmp');
```

```
function CreateNewFileName(BaseFileName: String; Ext: String;
  AlwaysUseNumber: Boolean = True): String;
var
  DocIndex: Integer;
  FileName: String;
```

```
FileNameFound: Boolean;
begin
  DocIndex := 1;
  Filenamefound := False;
  {if number not required and basefilename doesn't exist, use that.}
  if not(AlwaysUseNumber) and (not(fileexists(BaseFilename + ext))) then
 begin
    Filename := BaseFilename + ext;
    FilenameFound := true;
  while not (FileNameFound) do
 begin
    filename := BaseFilename + inttostr(DocIndex) + Ext;
    if fileexists(filename) then
     inc(DocIndex)
    else
      FileNameFound := true;
  end;
  Result := filename;
end;
```

I simply check if the file exists and return the first that doesn't.

Tip by Toby Allen

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