```
 1: program Project1;
 2:
 3: {$R *.dres}
 4:
 5: uses
 6:   Forms,
 7:   MainUnit in 'MainUnit.pas' {MainForm},
 8:   Unit2 in 'Unit2.pas'       {StrenghtForm},
 9:   Unit3 in 'Unit3.pas'       {Form3},
10:   Unit4 in 'Unit4.pas'       {SettingsForm},
11:   Unit5 in 'Unit5.pas'       {WarmthForm},
12:   ABOUT in 'ABOUT.pas'       {AboutBox},
13:   Unit6 in 'Unit6.pas'       {WorkForm},
14:   Unit7 in 'Unit7.pas'       {EnergyForm},
15:   Vcl.Themes,
16:   Vcl.Styles;
17:
18: {$R *.res}
19:
20: begin
21:   Application.Initialize;
22:   Application.CreateForm(TMainForm, MainForm);
23:   Application.CreateForm(TStrenghtForm, StrenghtForm);
24:   Application.CreateForm(TForm3, Form3);
25:   Application.CreateForm(TSettingsForm, SettingsForm);
26:   Application.CreateForm(TWarmthForm, WarmthForm);
27:   Application.CreateForm(TAboutBox, AboutBox);
28:   Application.CreateForm(TWorkForm, WorkForm);
29:   Application.CreateForm(TEnergyForm, EnergyForm);
30:   Application.Run;
31: end.
```

```
  1: unit MainUnit;
  2:
  3: interface
  4:
  5: uses
  6:   Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
  7:   Dialogs, StdCtrls, Menus, jpeg, ExtCtrls, Vcl.WinXCtrls, Vcl.Buttons;
  8:
  9: type
 10:   TMainForm = class(TForm)
 11:     FB: TButton;
 12:     MainMenu: TMainMenu;
 13:     N1: TMenuItem;
 14:     N2: TMenuItem;
 15:     N3: TMenuItem;
 16:     Image: TImage;
 17:     Name: TLabel;
 18:     N11: TMenuItem;
 19:     N7: TMenuItem;
 20:     QB: TButton;
 21:     QL: TLabel;
 22:     N51: TMenuItem;
 23:     AB: TButton;
 24:     EB: TButton;
 25:     Timer: TTimer;
 26:     Select: TComboBox;
 27:     Description: TLabel;
 28:     Label48: TLabel;
 29:     Mechanics: TPanel;
 30:     SectionInfo: TLabel;
 31:     SectionName: TLabel;
 32:     Label1: TLabel;
 33:     Scroll: TScrollBox;
 34:     EL: TLabel;
 35:     AL: TLabel;
 36:     FL: TLabel;
 37:     g2: TEdit;
 38:     ImportFA: TButton;
 39:     ResultFA: TBitBtn;
 40:     Label15: TLabel;
 41:     Label16: TLabel;
 42:     Label17: TLabel;
 43:     Capacity: TEdit;
 44:     Label14: TLabel;
 45:     Label13: TLabel;
 46:     Densitas: TEdit;
 47:     Label12: TLabel;
 48:     Label11: TLabel;
 49:     StrenghtA: TEdit;
 50:     Label4: TLabel;
 51:     Label3: TLabel;
 52:     Прогрессируем: TLabel;
 53:     InfoFA: TSpeedButton;
 54:     Line: TLabel;
 55:     Itinerary: TEdit;
 56:     Time: TEdit;
 57:     Label21: TLabel;
 58:     Label22: TLabel;
 59:     Label23: TLabel;
 60:     Speed: TEdit;
 61:     ResultV: TBitBtn;
 62:     ImportV: TButton;
 63:     Label38: TLabel;
 64:     Label9: TLabel;
 65:     Label10: TLabel;
 66:     Label5: TLabel;
 67:     Label2: TLabel;
 68:     Label6: TLabel;
 69:     InfoV: TSpeedButton;
 70:     Label7: TLabel;
 71:     Label8: TLabel;
 72:     DensitasOr: TEdit;
```

```
 73:     Label18: TLabel;
 74:     WeightOr: TEdit;
 75:     CapacityOr: TEdit;
 76:     Label19: TLabel;
 77:     Label20: TLabel;
 78:     ResultOr: TBitBtn;
 79:     ImportOr: TButton;
 80:     Label24: TLabel;
 81:     Label25: TLabel;
 82:     Label26: TLabel;
 83:     InfoOr: TSpeedButton;
 84:     Import: TButton;
 85:     Result: TBitBtn;
 86:     Label27: TLabel;
 87:     g1: TEdit;
 88:     Label28: TLabel;
 89:     Label29: TLabel;
 90:     Weight: TEdit;
 91:     Label30: TLabel;
 92:     Label31: TLabel;
 93:     Strenght: TEdit;
 94:     Info: TSpeedButton;
 95:     Label32: TLabel;
 96:     Label33: TLabel;
 97:     Label34: TLabel;
 98:     Label35: TLabel;
 99:     Label36: TLabel;
100:     Label37: TLabel;
101:     Label39: TLabel;
102:     PressureP: TEdit;
103:     ImportP: TBitBtn;
104:     ResultP: TBitBtn;
105:     StrenghtP: TEdit;
106:     ItineraryP: TEdit;
107:     Label40: TLabel;
108:     InfoP: TSpeedButton;
109:     Label41: TLabel;
110:     PressureW: TEdit;
111:     Label42: TLabel;
112:     Label43: TLabel;
113:     g3: TEdit;
114:     HeightW: TEdit;
115:     Label44: TLabel;
116:     Label45: TLabel;
117:     Label46: TLabel;
118:     Label47: TLabel;
119:     DensitasW: TEdit;
120:     Label50: TLabel;
121:     Label49: TLabel;
122:     ImportW: TBitBtn;
123:     ResultW: TBitBtn;
124:     Label51: TLabel;
125:     Label52: TLabel;
126:     Label53: TLabel;
127:     InfoW: TSpeedButton;
128:     WorkN: TEdit;
129:     Label54: TLabel;
130:     TimeN: TEdit;
131:     Label55: TLabel;
132:     Label56: TLabel;
133:     PowerN: TEdit;
134:     Label57: TLabel;
135:     Label58: TLabel;
136:     Label59: TLabel;
137:     ImportN: TButton;
138:     ResultN: TBitBtn;
139:     Label60: TLabel;
140:     InfoN: TSpeedButton;
141:     Label61: TLabel;
142:     Moment: TEdit;
143:     ImportM: TButton;
144:     ResultM: TBitBtn;
```

```
145:     Label63: TLabel;
146:     Label64: TLabel;
147:     Length: TEdit;
148:     Label65: TLabel;
149:     Label66: TLabel;
150:     StrenghtM: TEdit;
151:     N31: TMenuItem;
152:     N4txt1: TMenuItem;
153:     N4: TMenuItem;
154:     N52: TMenuItem;
155:     N61: TMenuItem;
156:     Label62: TLabel;
157:     Label67: TLabel;
158:     Label68: TLabel;
159:     Label69: TLabel;
160:     Label70: TLabel;
161:     Label71: TLabel;
162:     Label72: TLabel;
163:     InfoK: TSpeedButton;
164:     Label73: TLabel;
165:     Label74: TLabel;
166:     Label75: TLabel;
167:     Label76: TLabel;
168:     Label77: TLabel;
169:     Label78: TLabel;
170:     g4: TEdit;
171:     Label79: TLabel;
172:     Label80: TLabel;
173:     WeightVes: TEdit;
174:     Ves: TEdit;
175:     ImportVes: TBitBtn;
176:     ResultVes: TBitBtn;
177:     InfoMGH: TSpeedButton;
178:     Electricity: TPanel;
179:     Label81: TLabel;
180:     Label82: TLabel;
181:     Label83: TLabel;
182:     ImportQ: TButton;
183:     ResultQ: TBitBtn;
184:     Label84: TLabel;
185:     ChargeQ: TEdit;
186:     Label85: TLabel;
187:     TimeQ: TEdit;
188:     Label86: TLabel;
189:     Label87: TLabel;
190:     AmperageQ: TEdit;
191:     Label88: TLabel;
192:     Label89: TLabel;
193:     Label90: TLabel;
194:     Label91: TLabel;
195:     Label92: TLabel;
196:     InfoQ: TSpeedButton;
197:     VoltageU: TEdit;
198:     ResistanceU: TEdit;
199:     Label93: TLabel;
200:     Label94: TLabel;
201:     AmperageU: TEdit;
202:     Label95: TLabel;
203:     Label96: TLabel;
204:     Label97: TLabel;
205:     ImportU: TBitBtn;
206:     ResultU: TBitBtn;
207:     Label99: TLabel;
208:     Label100: TLabel;
209:     Label98: TLabel;
210:     Label101: TLabel;
211:     Label102: TLabel;
212:     InfoU: TSpeedButton;
213:     Label103: TLabel;
214:     AmperageAQ: TEdit;
215:     ChargeAQ: TEdit;
216:     Label105: TLabel;
```

```
217:     VoltageAQ: TEdit;
218:     Label106: TLabel;
219:     Label104: TLabel;
220:     Label108: TLabel;
221:     Label109: TLabel;
222:     ResultAQ: TBitBtn;
223:     ImportAQ: TBitBtn;
224:     Label110: TLabel;
225:     Label111: TLabel;
226:     InfoAQ: TSpeedButton;
227:     Label112: TLabel;
228:     ImportA: TButton;
229:     ResultA: TBitBtn;
230:     Label113: TLabel;
231:     TimeA: TEdit;
232:     Label114: TLabel;
233:     Label115: TLabel;
234:     Voltage: TEdit;
235:     Label116: TLabel;
236:     Label117: TLabel;
237:     Amperage: TEdit;
238:     Label118: TLabel;
239:     Label119: TLabel;
240:     WorkA: TEdit;
241:     Label120: TLabel;
242:     Label121: TLabel;
243:     InfoA: TSpeedButton;
244:     Label122: TLabel;
245:     PowerPO: TEdit;
246:     Label123: TLabel;
247:     Label124: TLabel;
248:     AmperagePO: TEdit;
249:     Label125: TLabel;
250:     Label126: TLabel;
251:     VoltagePO: TEdit;
252:     Label127: TLabel;
253:     ResultPO: TBitBtn;
254:     ImportPO: TButton;
255:     Label128: TLabel;
256:     Label129: TLabel;
257:     Label130: TLabel;
258:     InfoPO: TSpeedButton;
259:     ImportQQ: TBitBtn;
260:     ResultQQ: TBitBtn;
261:     Label131: TLabel;
262:     TempQQ: TEdit;
263:     Label132: TLabel;
264:     Label133: TLabel;
265:     Label134: TLabel;
266:     ResistanceQQ: TEdit;
267:     Label135: TLabel;
268:     Label136: TLabel;
269:     AmperageQQ: TEdit;
270:     Label137: TLabel;
271:     Label138: TLabel;
272:     WarmthQQ: TEdit;
273:     Label139: TLabel;
274:     Label140: TLabel;
275:     InfoQQ: TSpeedButton;
276:     Kinematics: TPanel;
277:     Label141: TLabel;
278:     Label142: TLabel;
279:     Label143: TLabel;
280:     ImportK: TBitBtn;
281:     ResultK: TBitBtn;
282:     Label144: TLabel;
283:     SpeedK: TEdit;
284:     Label145: TLabel;
285:     Label146: TLabel;
286:     TimeK: TEdit;
287:     ItineraryK: TEdit;
288:     Label147: TLabel;
```

```
289:     Label148: TLabel;
290:     Label149: TLabel;
291:     Label150: TLabel;
292:     Label151: TLabel;
293:     InfoKine: TSpeedButton;
294:     AccelerationKA: TEdit;
295:     ImportKA: TButton;
296:     ResultKA: TBitBtn;
297:     Label152: TLabel;
298:     TimeKA: TEdit;
299:     Label153: TLabel;
300:     Label154: TLabel;
301:     Label155: TLabel;
302:     Label156: TLabel;
303:     Speed0KA: TEdit;
304:     Label157: TLabel;
305:     Label158: TLabel;
306:     SpeedKA: TEdit;
307:     Label159: TLabel;
308:     Label160: TLabel;
309:     Label161: TLabel;
310:     InfoKA: TSpeedButton;
311:     N71: TMenuItem;
312:     Label162: TLabel;
313:     Label163: TLabel;
314:     ResultKK: TBitBtn;
315:     ImportKK: TButton;
316:     TimeKK: TEdit;
317:     Label164: TLabel;
318:     Speed0KK: TEdit;
319:     Label165: TLabel;
320:     SpeedKK: TEdit;
321:     Label166: TLabel;
322:     AccelerationKK: TEdit;
323:     Label168: TLabel;
324:     Label167: TLabel;
325:     Label169: TLabel;
326:     Label170: TLabel;
327:     InfoKK: TSpeedButton;
328:     Label171: TLabel;
329:     ItineraryKS: TEdit;
330:     Label172: TLabel;
331:     Label173: TLabel;
332:     SpeedKS: TEdit;
333:     Label174: TLabel;
334:     Label175: TLabel;
335:     TimeKS: TEdit;
336:     Label176: TLabel;
337:     Label177: TLabel;
338:     Label178: TLabel;
339:     AccelerationKS: TEdit;
340:     Label179: TLabel;
341:     Label180: TLabel;
342:     ImportKS: TButton;
343:     ResultKS: TBitBtn;
344:     Label181: TLabel;
345:     Label182: TLabel;
346:     TimeKSF: TEdit;
347:     Label183: TLabel;
348:     Just2: TEdit;
349:     Label184: TLabel;
350:     InfoKS: TSpeedButton;
351:     Label107: TLabel;
352:     AccelerationKSV: TEdit;
353:     ImportKSV: TButton;
354:     ResultKSV: TBitBtn;
355:     Just2KSV: TEdit;
356:     Label185: TLabel;
357:     Label186: TLabel;
358:     Speed0KSV: TEdit;
359:     Label188: TLabel;
360:     Label189: TLabel;
```

```
361:     SpeedKSV: TEdit;
362:     Label192: TLabel;
363:     Label194: TLabel;
364:     Label195: TLabel;
365:     ItineraryKSV: TEdit;
366:     Label196: TLabel;
367:     Label187: TLabel;
368:     Label190: TLabel;
369:     Label191: TLabel;
370:     Label193: TLabel;
371:     InfoKSV: TSpeedButton;
372:     Sound: TPanel;
373:     Label197: TLabel;
374:     Label198: TLabel;
375:     Label199: TLabel;
376:     Label200: TLabel;
377:     EnergyE: TEdit;
378:     Label201: TLabel;
379:     InductanceE: TEdit;
380:     Label202: TLabel;
381:     Label203: TLabel;
382:     Just2E: TEdit;
383:     AmperageE: TEdit;
384:     Label204: TLabel;
385:     Label205: TLabel;
386:     ImportE: TButton;
387:     ResultE: TBitBtn;
388:     Label206: TLabel;
389:     Label207: TLabel;
390:     Label208: TLabel;
391:     Label209: TLabel;
392:     Label210: TLabel;
393:     InfoE: TSpeedButton;
394:     procedure FBClick(Sender: TObject);
395:     procedure Button1Click(Sender: TObject);
396:     procedure N1Click(Sender: TObject);
397:     procedure N7Click(Sender: TObject);
398:     procedure FormCreate(Sender: TObject);
399:     procedure FormDestroy(Sender: TObject);
400:     procedure QBClick(Sender: TObject);
401:     procedure TimerTimer(Sender: TObject);
402:     procedure N3Click(Sender: TObject);
403:     procedure ABClick(Sender: TObject);
404:     procedure EBClick(Sender: TObject);
405:     procedure SelectChange(Sender: TObject);
406:     procedure ResultFAClick(Sender: TObject);
407:     procedure ImportFAClick(Sender: TObject);
408:     procedure g2Change(Sender: TObject);
409:     procedure DensitasClick(Sender: TObject);
410:     procedure CapacityClick(Sender: TObject);
411:     procedure InfoFAClick(Sender: TObject);
412:     procedure FormMouseWheel(Sender: TObject; Shift: TShiftState;
413:       WheelDelta: Integer; MousePos: TPoint; var Handled: Boolean);
414:     procedure InfoVClick(Sender: TObject);
415:     procedure ResultVClick(Sender: TObject);
416:     procedure ImportVClick(Sender: TObject);
417:     procedure ItineraryClick(Sender: TObject);
418:     procedure TimeClick(Sender: TObject);
419:     procedure WeightOrClick(Sender: TObject);
420:     procedure CapacityOrClick(Sender: TObject);
421:     procedure ResultOrClick(Sender: TObject);
422:     procedure ImportOrClick(Sender: TObject);
423:     procedure InfoOrClick(Sender: TObject);
424:     procedure InfoClick(Sender: TObject);
425:     procedure WeightClick(Sender: TObject);
426:     procedure ResultClick(Sender: TObject);
427:     procedure ImportClick(Sender: TObject);
428:     procedure ResultPClick(Sender: TObject);
429:     procedure StrenghtPClick(Sender: TObject);
430:     procedure ItineraryPClick(Sender: TObject);
431:     procedure ImportPClick(Sender: TObject);
432:     procedure InfoPClick(Sender: TObject);
```

```
433:     procedure g1Change(Sender: TObject);
434:     procedure DensitasWClick(Sender: TObject);
435:     procedure HeightWClick(Sender: TObject);
436:     procedure g3Change(Sender: TObject);
437:     procedure ResultWClick(Sender: TObject);
438:     procedure ImportWClick(Sender: TObject);
439:     procedure InfoWClick(Sender: TObject);
440:     procedure WorkNClick(Sender: TObject);
441:     procedure TimeNClick(Sender: TObject);
442:     procedure ResultNClick(Sender: TObject);
443:     procedure ImportNClick(Sender: TObject);
444:     procedure InfoNClick(Sender: TObject);
445:     procedure ResultMClick(Sender: TObject);
446:     procedure StrenghtMClick(Sender: TObject);
447:     procedure LengthClick(Sender: TObject);
448:     procedure ImportMClick(Sender: TObject);
449:     procedure InfoKClick(Sender: TObject);
450:     procedure WeightVesClick(Sender: TObject);
451:     procedure ResultVesClick(Sender: TObject);
452:     procedure ImportVesClick(Sender: TObject);
453:     procedure InfoMGHClick(Sender: TObject);
454:     procedure ResultQClick(Sender: TObject);
455:     procedure ChargeQClick(Sender: TObject);
456:     procedure TimeQClick(Sender: TObject);
457:     procedure ImportQClick(Sender: TObject);
458:     procedure InfoQClick(Sender: TObject);
459:     procedure ResultUClick(Sender: TObject);
460:     procedure VoltageUClick(Sender: TObject);
461:     procedure ResistanceUClick(Sender: TObject);
462:     procedure ImportUClick(Sender: TObject);
463:     procedure ResultAQClick(Sender: TObject);
464:     procedure AmperageAQClick(Sender: TObject);
465:     procedure ChargeAQClick(Sender: TObject);
466:     procedure ImportAQClick(Sender: TObject);
467:     procedure InfoAQClick(Sender: TObject);
468:     procedure AmperageClick(Sender: TObject);
469:     procedure VoltageClick(Sender: TObject);
470:     procedure TimeAClick(Sender: TObject);
471:     procedure ResultAClick(Sender: TObject);
472:     procedure ImportAClick(Sender: TObject);
473:     procedure InfoAClick(Sender: TObject);
474:     procedure AmperagePOClick(Sender: TObject);
475:     procedure VoltagePOClick(Sender: TObject);
476:     procedure ResultPOClick(Sender: TObject);
477:     procedure ImportPOClick(Sender: TObject);
478:     procedure InfoPOClick(Sender: TObject);
479:     procedure AmperageQQClick(Sender: TObject);
480:     procedure ResistanceQQClick(Sender: TObject);
481:     procedure TempQQClick(Sender: TObject);
482:     procedure ResultQQClick(Sender: TObject);
483:     procedure ImportQQClick(Sender: TObject);
484:     procedure InfoQQClick(Sender: TObject);
485:     procedure ItineraryKClick(Sender: TObject);
486:     procedure TimeKClick(Sender: TObject);
487:     procedure ResultKClick(Sender: TObject);
488:     procedure InfoKineClick(Sender: TObject);
489:     procedure ImportKClick(Sender: TObject);
490:     procedure ResultKAClick(Sender: TObject);
491:     procedure Speed0KAClick(Sender: TObject);
492:     procedure AccelerationKAClick(Sender: TObject);
493:     procedure TimeKAClick(Sender: TObject);
494:     procedure ImportKAClick(Sender: TObject);
495:     procedure InfoKAClick(Sender: TObject);
496:     procedure ItineraryKKeyPress(Sender: TObject; var Key: Char);
497:     procedure ResultKKClick(Sender: TObject);
498:     procedure SpeedKKClick(Sender: TObject);
499:     procedure Speed0KKClick(Sender: TObject);
500:     procedure TimeKKClick(Sender: TObject);
501:     procedure ImportKKClick(Sender: TObject);
502:     procedure InfoKKClick(Sender: TObject);
503:     procedure Just2Change(Sender: TObject);
504:     procedure ResultKSClick(Sender: TObject);
```

```
505:     procedure AccelerationKSClick(Sender: TObject);
506:     procedure TimeKSFClick(Sender: TObject);
507:     procedure TimeKSClick(Sender: TObject);
508:     procedure SpeedKSClick(Sender: TObject);
509:     procedure ImportKSClick(Sender: TObject);
510:     procedure InfoKSClick(Sender: TObject);
511:     procedure Just2KSVChange(Sender: TObject);
512:     procedure AccelerationKSVClick(Sender: TObject);
513:     procedure Speed0KSVClick(Sender: TObject);
514:     procedure SpeedKSVClick(Sender: TObject);
515:     procedure ResultKSVClick(Sender: TObject);
516:     procedure ImportKSVClick(Sender: TObject);
517:     procedure Just2EChange(Sender: TObject);
518:     procedure InductanceEClick(Sender: TObject);
519:     procedure AmperageEClick(Sender: TObject);
520:     procedure ResultEClick(Sender: TObject);
521:     procedure ImportEClick(Sender: TObject);
522:     procedure InfoEClick(Sender: TObject);
523:   private
524:     { Private declarations }
525:   public
526:     procedure MyShowHint(var HintStr: string; var CanShow: Boolean;
527:       var HintInfo: THintInfo);
528:     { Public declarations }
529:   end;
530:
531: var
532:   MainForm: TMainForm;
533:   TF: TextFile;
534:   s1, s2, s3, s4, s5, s6: string;
535:   m, d, V, a, k, x, mu, c, t, Y, L, amp, R, U, ti, F, S, pow, h, p, vv,
536:   vv0, Tk, ii, AA, len, pp, chr: real;
537:   alfa, rad: extended;
538:   value: Byte = 0;
539:
540:   { m - масса
541:     d - ρ - плотность
542:     V - объём
543:     a - ускорение
544:     k - коофицент жёсткости
545:     x - длина
546:     mu - μ
547:     alfa - α
548:     t - температура
549:     c - удельная теплоёмкость
550:     Y -  λ
551:     L - удельная теплота парообразования
552:     amp - сила тока
553:     R - сопротивление тока
554:     U - напряжение
555:     ti - время
556:     F - сила
557:     S - путь
558:     pow - мощность
559:     h - высота
560:     p - давление
561:     vv - скорость
562:     Tk - температура в Кельвинах
563:     ii - число степеней свободы
564:     AA - работа
565:     len - длина
566:     pp - вес
567:     chr - электрический заряд
568:     vv0 - начальная скорость }
569: const
570:   g = 9.8; // ускорение свободного падения
571:   kB = 10E-23; // постоянная Больцмана
572:
573: implementation
574:
575: uses Unit2, Unit3, Unit4, Unit5, Unit6, Unit7, ABOUT;
576:
```

```
577: {$R *.dfm}
578:
579: procedure TMainForm.TimerTimer(Sender: TObject);
580: begin
581:   value := value + 1;
582:   if value <= 248 then
583:     AlphaBlendValue := value
584:   else
585:   begin
586:     value := 0;
587:     Timer.Enabled := False;
588:   end;
589: end;
590:
591: procedure TMainForm.MyShowHint(var HintStr: string; var CanShow: Boolean;
592:   var HintInfo: THintInfo);
593: var
594:   i: Integer;
595: begin
596:   for i := 0 to Application.ComponentCount - 1 do
597:     if Application.Components[i] is THintWindow then
598:       with THintWindow(Application.Components[i]).Canvas do
599:       begin
600:         Font.Name := 'Centry Gothic';
601:         Font.Size := 9;
602:         Font.Style := [];
603:         HintInfo.HintColor := clWhite;
604:       end;
605: end;
606:
607: procedure TMainForm.FormCreate(Sender: TObject);
608: begin
609:   AlphaBlendValue := value;
610:   assignfile(TF, 'results.txt');
611:   append(TF);
612:   FB.Hint := '    F - сила ' + #13 + '     СИ - Н' + #13 + ' Векторная ';
613:   QB.Hint := ' Q - теплота ' + #13 + '    СИ - Дж' + #13 + ' Скалярная ';
614:   AB.Hint := '  A - работа ' + #13 + '    СИ - Дж' + #13 + ' Скалярная ';
615:   EB.Hint := ' E - энергия' + #13 + '    СИ - Дж' + #13 + ' Скалярная ';
616:   Application.OnShowHint := MyShowHint;
617:   Application.HintPause := 250;
618:   Application.HintHidePause := 60000;
619: end;
620:
621: procedure TMainForm.FormDestroy(Sender: TObject);
622: begin
623:   closefile(TF);
624: end;
625:
626: procedure TMainForm.FormMouseWheel(Sender: TObject; Shift: TShiftState;
627:   WheelDelta: Integer; MousePos: TPoint; var Handled: Boolean);
628: begin
629:   Scroll.VertScrollBar.Position := Scroll.VertScrollBar.Position - WheelDelta;
630: end;
631:
632: procedure TMainForm.SelectChange(Sender: TObject);
633: var
634:   i: Integer;
635: begin
636:   if Select.ItemIndex = 0 then
637:   begin
638:     Mechanics.Show;
639:     Electricity.Hide;
640:     Kinematics.Hide;
641:     Sound.Hide;
642:   end;
643:   if Select.ItemIndex = 1 then
644:   begin
645:     Electricity.Show;
646:     Mechanics.Hide;
647:     Kinematics.Hide;
648:     Sound.Hide;
```

```
649:   end;
650:   if Select.ItemIndex = 2 then
651:   begin
652:     Kinematics.Show;
653:     Mechanics.Hide;
654:     Electricity.Hide;
655:     Sound.Hide;
656:   end;
657:   if Select.ItemIndex = 3 then
658:   begin
659:     Sound.Show;
660:     Mechanics.Hide;
661:     Electricity.Hide;
662:     Kinematics.Hide;
663:   end;
664: end;
665:
666: procedure TMainForm.ItineraryKKeyPress(Sender: TObject; var Key: Char);
667: begin
668:   if not(Key in ['0'..'9', ',', #8]) then
669:     Key:=#0
670: end;
671:
672: procedure TMainForm.Speed0KAClick(Sender: TObject);
673: begin
674:   Speed0KA.Clear;
675: end;
676: procedure TMainForm.Speed0KKClick(Sender: TObject);
677: begin
678:   Speed0KK.Clear;
679: end;
680:
681: procedure TMainForm.Speed0KSVClick(Sender: TObject);
682: begin
683:   Speed0KSV.Clear;
684: end;
685:
686: procedure TMainForm.SpeedKKClick(Sender: TObject);
687: begin
688:   SpeedKK.Clear;
689: end;
690:
691: procedure TMainForm.SpeedKSClick(Sender: TObject);
692: begin
693:   SpeedKS.Clear;
694: end;
695:
696: procedure TMainForm.SpeedKSVClick(Sender: TObject);
697: begin
698:   SpeedKSV.Clear;
699: end;
700:
701: procedure TMainForm.VoltageClick(Sender: TObject);
702: begin
703:   Voltage.Clear;
704: end;
705:
706: procedure TMainForm.VoltagePOClick(Sender: TObject);
707: begin
708:   VoltagePO.Clear;
709: end;
710:
711: procedure TMainForm.VoltageUClick(Sender: TObject);
712: begin
713:   VoltageU.Clear;
714: end;
715:
716: procedure TMainForm.g1Change(Sender: TObject);
717: begin
718:   g1.Text := ('9,8');
719: end;
720:
```

```
721: procedure TMainForm.g2Change(Sender: TObject);
722: begin
723:   g2.Text := ('9,8');
724: end;
725:
726: procedure TMainForm.g3Change(Sender: TObject);
727: begin
728:   g3.Text := ('9,8');
729: end;
730:
731: procedure TMainForm.HeightWClick(Sender: TObject);
732: begin
733:   HeightW.Clear;
734: end;
735:
736: procedure TMainForm.ImportAClick(Sender: TObject);
737: begin
738:   s1 := WorkA.Text;
739:   s2 := Amperage.Text;
740:   s3 := Voltage.Text;
741:   s4 := TimeA.Text;
742:   writeln(TF, 'Работа электрического тока: ', s1, 'кДж=', s2, 'A*', s3, 'B*',
743:     s4, 'сек');
744: end;
745:
746: procedure TMainForm.ImportAQClick(Sender: TObject);
747: begin
748:   s1 := VoltageAQ.Text;
749:   s2 := AmperageAQ.Text;
750:   s3 := ChargeAQ.Text;
751:   writeln(TF, 'Напряжение: ', s1, 'B=', s2, 'A/', s3, 'Кл');
752: end;
753:
754: procedure TMainForm.ImportClick(Sender: TObject);
755: begin
756:   s1 := Strenght.Text;
757:   s2 := Weight.Text;
758:   s3 := g1.Text;
759:   writeln(TF, 'Сила тяжести: ', s1, 'H=', s2, 'кг*', s3, 'H/кг');
760: end;
761:
762: procedure TMainForm.ImportEClick(Sender: TObject);
763: begin
764:   s1 := EnergyE.Text;
765:   s2 := InductanceE.Text;
766:   s3 := AmperageE.Text;
767:   writeln(TF, 'Энергия магнитного поля: ', s1, 'кДж=(', s2, 'Гн*', s3,
768:     '^2A)/2');
769: end;
770:
771: procedure TMainForm.ImportFAClick(Sender: TObject);
772: begin
773:   s1 := StrenghtA.Text;
774:   s2 := Densitas.Text;
775:   s3 := Capacity.Text;
776:   s4 := g2.Text;
777:   writeln(TF, 'Архимедова Сила: ', s1, 'H=', s2, 'кг/м^3*', s3, 'м^3*',
778:     s4, 'H/кг');
779: end;
780:
781: procedure TMainForm.ImportKAClick(Sender: TObject);
782: begin
783:   s1 := SpeedKA.Text;
784:   s2 := Speed0KA.Text;
785:   s3 := AccelerationKA.Text;
786:   s4 := TimeKA.Text;
787:   writeln(TF, 'Уравнение скорости: ', s1, 'м/с=', s2, 'м/с+', s3, 'м/с^2*',
788:     s4, 'с');
789: end;
790:
791: procedure TMainForm.ImportKClick(Sender: TObject);
792: begin
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793:   s1 := SpeedK.Text;
794:   s2 := ItineraryK.Text;
795:   s3 := TimeK.Text;
796:   writeln(TF, 'Скорость равномер. прямолин. движения: ', s1, 'м/с=', s2,
797:     'м/', s3, 'с');
798: end;
799:
800: procedure TMainForm.ImportKKClick(Sender: TObject);
801: begin
802:   s1 := AccelerationKK.Text;
803:   s2 := SpeedKK.Text;
804:   s3 := Speed0KK.Text;
805:   s4 := TimeKK.Text;
806:   writeln(TF, 'Ускорение: ', s1, 'м/с^2=', s2, '(', s2, 'м/с-', s3, 'м/с)/',
807:     s4, 'с');
808: end;
809:
810: procedure TMainForm.ImportKSClick(Sender: TObject);
811: begin
812:   s1 := ItineraryKS.Text;
813:   s2 := SpeedKS.Text;
814:   s3 := TimeKS.Text;
815:   s4 := AccelerationKS.Text;
816:   s5 := TimeKSF.Text;
817:   writeln(TF, 'Перемещение: ', s1, 'м=', s2, 'м/с*', s3, 'с+((', s4, 'м/с^2*',
818:     s5, '^2с)/2)');
819: end;
820:
821: procedure TMainForm.ImportKSVClick(Sender: TObject);
822: begin
823:   s1 := ItineraryKSV.Text;
824:   s2 := SpeedKSV.Text;
825:   s3 := Speed0KSV.Text;
826:   s4 := AccelerationKSV.Text;
827:   writeln(TF, 'Перемещение: ', s1, 'м=(', s2, '^2м/с-', s3, '^2м/с)/(2*',
828:     s4, 'м/с^2)');
829: end;
830:
831: procedure TMainForm.ImportMClick(Sender: TObject);
832: begin
833:   s1 := Moment.Text;
834:   s2 := StrenghtM.Text;
835:   s3 := Length.Text;
836:   writeln(TF, 'Момент силы: ', s1, 'Н*м=', s2, 'Н*', s3, 'м');
837: end;
838:
839: procedure TMainForm.ImportNClick(Sender: TObject);
840: begin
841:   s1 := PowerN.Text;
842:   s2 := WorkN.Text;
843:   s3 := TimeN.Text;
844:   writeln(TF, 'Мощность: ', s1, 'Вт=', s2, 'Дж/', s3, 'сек');
845: end;
846:
847: procedure TMainForm.ImportOrClick(Sender: TObject);
848: begin
849:   s1 := DensitasOr.Text;
850:   s2 := WeightOr.Text;
851:   s3 := CapacityOr.Text;
852:   writeln(TF, 'Плотность: ', s1, 'кг/м^3=', s2, 'кг/', s3, 'м^3');
853: end;
854:
855: procedure TMainForm.ImportVClick(Sender: TObject);
856: begin
857:   s1 := Speed.Text;
858:   s2 := Itinerary.Text;
859:   s3 := Time.Text;
860:   writeln(TF, 'Скорость равномер. прямолин. движения: ', s1, 'м/с=', s2,
861:     'м/', s3, 'с');
862: end;
863:
864: procedure TMainForm.ImportVesClick(Sender: TObject);
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```
865: begin
866:   s1 := Ves.Text;
867:   s2 := WeightVes.Text;
868:   s3 := g4.Text;
869:   writeln(TF, 'Вес тела: ', s1, 'Н=', s2, 'кг*', s3, 'Н/кг');
870: end;
871:
872: procedure TMainForm.ImportWClick(Sender: TObject);
873: begin
874:   s1 := PressureW.Text;
875:   s2 := DensitasW.Text;
876:   s3 := HeightW.Text;
877:   s4 := g3.Text;
878:   writeln(TF, 'Давление столба жидкости: ', s1, 'Па=', s2, 'кг/м^3*', s3, 'м*',
879:     s4, 'Н/кг');
880: end;
881:
882: procedure TMainForm.ImportPClick(Sender: TObject);
883: begin
884:   s1 := PressureP.Text;
885:   s2 := StrenghtP.Text;
886:   s3 := ItineraryP.Text;
887:   writeln(TF, 'Давление: ', s1, 'Па=', s2, 'Н/', s3, 'м');
888: end;
889:
890: procedure TMainForm.ImportPOClick(Sender: TObject);
891: begin
892:   s1 := PowerPO.Text;
893:   s2 := AmperagePO.Text;
894:   s3 := VoltagePO.Text;
895:   writeln(TF, 'Мощность тока: ', s1, 'Вт=', s2, 'А*', s3, 'В');
896: end;
897:
898: procedure TMainForm.ImportQClick(Sender: TObject);
899: begin
900:   s1 := AmperageQ.Text;
901:   s2 := ChargeQ.Text;
902:   s3 := TimeQ.Text;
903:   writeln(TF, 'Сила тока: ', s1, 'А=', s2, 'Кл/', s3, 'сек');
904: end;
905:
906: procedure TMainForm.ImportQQClick(Sender: TObject);
907: begin
908:   s1 := WarmthQQ.Text;
909:   s2 := AmperageQQ.Text;
910:   s3 := ResistanceQQ.Text;
911:   s4 := TempQQ.Text;
912:   writeln(TF, 'Теплота проводника: ', s1, 'кДж=', s2, '^2А*', s3, 'Ом*',
913:     s4, '°C');
914: end;
915:
916: procedure TMainForm.ImportUClick(Sender: TObject);
917: begin
918:   s1 := AmperageU.Text;
919:   s2 := VoltageU.Text;
920:   s3 := ResistanceU.Text;
921:   writeln(TF, 'Сила тока: ', s1, 'А=', s2, 'В/', s3, 'Ом');
922: end;
923:
924: procedure TMainForm.InductanceEClick(Sender: TObject);
925: begin
926:   InductanceE.Clear;
927: end;
928:
929: procedure TMainForm.InfoAClick(Sender: TObject);
930: begin
931:   MessageBox(handle,
932:     PChar('В проводнике носители заряда движутся под действием электрического поля, а при пер
    еносе заряда совершается работа.'),
933:     PChar('Работа электрического тока'), MB_ICONINFORMATION + MB_OK);
934: end;
935:
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```
936: procedure TMainForm.InfoAQClick(Sender: TObject);
937: begin
938:   MessageBox(handle,
939:     PChar('Физическая величина, значение которой равно работе эффективного электрического поля (включающего сторонние поля), совершаемой при переносе единичного пробного электрического заряда из точки A в точку B.'),
940:     PChar('Напряжение'), MB_ICONINFORMATION + MB_OK);
941: end;
942:
943: procedure TMainForm.InfoClick(Sender: TObject);
944: begin
945:   MessageBox(handle,
946:     PChar('Сила, действующая на любое материальное тело, находящееся вблизи поверхности Земли или другого астрономического тела.'),
947:     PChar('Сила тяжести'), MB_ICONINFORMATION + MB_OK);
948: end;
949:
950: procedure TMainForm.InfoEClick(Sender: TObject);
951: begin
952:   MessageBox(handle,
953:     PChar('Энергия, связанная с магнитным полем и преобразующаяся в другие формы энергии при изменении магнитного поля.'),
954:     PChar('Энергия магнитного поля'), MB_ICONINFORMATION + MB_OK);
955: end;
956:
957: procedure TMainForm.InfoFAClick(Sender: TObject);
958: begin
959:   MessageBox(handle,
960:     PChar('Существование гидростатического давления приводит к тому, что на любое тело, находящееся в жидкости или газе, действует выталкивающая сила. Впервые значение этой силы в жидкостях определил на опыте Архимед.'),
961:     PChar('Закон Архимеда'), MB_ICONINFORMATION + MB_OK);
962: end;
963:
964: procedure TMainForm.InfoKAClick(Sender: TObject);
965: begin
966:   MessageBox(handle,
967:     PChar('Движение, при котором ускорение постоянно по модулю и направлению.'),
968:     PChar('Равноускоренное движение'), MB_ICONINFORMATION + MB_OK);
969: end;
970:
971: procedure TMainForm.InfoKClick(Sender: TObject);
972: begin
973:   MessageBox(handle,
974:     PChar('Момент силы относительно некоторой точки - векторное произведение силы на кратчайшее расстояние от этой точки до линии действия силы. Он направлен вдоль оси вращения. Это направление определяется правилом буравчика.'),
975:     PChar('Момент силы'), MB_ICONINFORMATION + MB_OK);
976: end;
977:
978: procedure TMainForm.InfoKineClick(Sender: TObject);
979: begin
980:   MessageBox(handle,
981:     PChar('Механическое движение, при котором тело за любые равные промежутки времени проходит одно и то же расстояние.'),
982:     PChar('Скорость равномерного прямолинейного движения'),
983:     MB_ICONINFORMATION + MB_OK);
984: end;
985:
986: procedure TMainForm.InfoKKClick(Sender: TObject);
987: begin
988:   MessageBox(handle,
989:     PChar('Физическая величина, определяющая быстроту изменения скорости тела.'),
990:     PChar('Ускорение'), MB_ICONINFORMATION + MB_OK);
991: end;
992:
993: procedure TMainForm.InfoKSClick(Sender: TObject);
994: begin
995:   MessageBox(handle,
996:     PChar('Изменение положения физического тела в пространстве с течением времени относительно выбранной системы отсчёта. Применительно к движению материальной точки перемещением называют вектор, характеризующий это изменение.'),
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 997:     PChar('Перемещение'), MB_ICONINFORMATION + MB_OK);
 998: end;
 999:
1000: procedure TMainForm.InfoQClick(Sender: TObject);
1001: begin
1002:   MessageBox(handle,
1003:     PChar('Количество электричества, проходящее через поперечное сечение проводника в течении
       некоторого времени.'),
1004:     PChar('Сила тока'), MB_ICONINFORMATION + MB_OK);
1005: end;
1006:
1007: procedure TMainForm.InfoQQClick(Sender: TObject);
1008: begin
1009:   MessageBox(handle,
1010:     PChar('Физический закон, дающий количественную оценку теплового действия электрического т
      ока.'),
1011:     PChar('Закон Джоуля-Ленца'), MB_ICONINFORMATION + MB_OK);
1012: end;
1013:
1014: procedure TMainForm.InfoMGHClick(Sender: TObject);
1015: begin
1016:   MessageBox(handle,
1017:     PChar('Сила воздействия тела на опору или подвес.'),
1018:     PChar('Вес тела'), MB_ICONINFORMATION + MB_OK);
1019: end;
1020:
1021: procedure TMainForm.InfoNClick(Sender: TObject);
1022: begin
1023:   MessageBox(handle,
1024:     PChar('Мощностью называется отношение произвольной работы к времени, в течение которого с
      овершается эта работа.'),
1025:     PChar('Мощность'), MB_ICONINFORMATION + MB_OK);
1026: end;
1027:
1028: procedure TMainForm.InfoOrClick(Sender: TObject);
1029: begin
1030:   MessageBox(handle,
1031:     PChar('Скалярная физическая величина, определяемая как отношение массы тела к занимаемому
       этим телом объёму.'),
1032:     PChar('Плотность'), MB_ICONINFORMATION + MB_OK);
1033: end;
1034:
1035: procedure TMainForm.InfoPClick(Sender: TObject);
1036: begin
1037:   MessageBox(handle,
1038:     PChar('Физическая величина, численно равная силе, действующей на единицу площади поверхно
      сти перпендикулярно этой поверхности.'),
1039:     PChar('Давление'), MB_ICONINFORMATION + MB_OK);
1040: end;
1041:
1042: procedure TMainForm.InfoPOClick(Sender: TObject);
1043: begin
1044:   MessageBox(handle,
1045:     PChar('Величина, характеризующая скорость передачи или преобразования электрической энерг
      ии.'),
1046:     PChar('Мощность'),
1047:     MB_ICONINFORMATION + MB_OK);
1048: end;
1049:
1050: procedure TMainForm.InfoVClick(Sender: TObject);
1051: begin
1052:   MessageBox(handle,
1053:     PChar('Механическое движение, при котором тело за любые равные промежутки времени проходи
      т одно и то же расстояние.'),
1054:     PChar('Скорость равномерного прямолинейного движения'),
1055:     MB_ICONINFORMATION + MB_OK);
1056: end;
1057:
1058: procedure TMainForm.InfoWClick(Sender: TObject);
1059: begin
1060:   MessageBox(handle,
1061:     PChar('Капельные и газообразные жидкости, находясь в покое, передают давление одинаково в
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    о все стороны. Это давление действует на всякую часть плоскости, ограничивающей жидкость.'),
1062:     PChar('Гидростатическое давление'),
1063:     MB_ICONINFORMATION + MB_OK);
1064: end;
1065:
1066: procedure TMainForm.ItineraryClick(Sender: TObject);
1067: begin
1068:   Itinerary.Clear;
1069: end;
1070:
1071: procedure TMainForm.ItineraryKClick(Sender: TObject);
1072: begin
1073:   ItineraryK.Clear;
1074: end;
1075:
1076: procedure TMainForm.ItineraryPClick(Sender: TObject);
1077: begin
1078:   ItineraryP.Clear;
1079: end;
1080:
1081: procedure TMainForm.Just2Change(Sender: TObject);
1082: begin
1083:   Just2.Text := '  2';
1084: end;
1085:
1086: procedure TMainForm.Just2EChange(Sender: TObject);
1087: begin
1088:   Just2.Text := '  2';
1089: end;
1090:
1091: procedure TMainForm.Just2KSVChange(Sender: TObject);
1092: begin
1093:   Just2.Text := '  2';
1094: end;
1095:
1096: procedure TMainForm.LengthClick(Sender: TObject);
1097: begin
1098: Length.Clear;
1099: end;
1100:
1101: procedure TMainForm.QBClick(Sender: TObject);
1102: begin
1103:   WarmthForm.Show;
1104:   MainForm.Hide;
1105: end;
1106:
1107: procedure TMainForm.ResistanceQQClick(Sender: TObject);
1108: begin
1109:   ResistanceQQ.Clear;
1110: end;
1111:
1112: procedure TMainForm.ResistanceUClick(Sender: TObject);
1113: begin
1114:   ResistanceU.Clear;
1115: end;
1116:
1117: procedure TMainForm.ResultAClick(Sender: TObject);
1118: begin
1119:   amp := StrToFloat(Amperage.Text);
1120:   U := StrToFloat(Voltage.Text);
1121:   ti := StrToFloat(TimeA.Text);
1122:   WorkA.Text := FloatToStr((amp * U * ti) / 1000);
1123: end;
1124:
1125: procedure TMainForm.ResultAQClick(Sender: TObject);
1126: begin
1127:   amp := StrToFloat(AmperageAQ.Text);
1128:   chr := StrToFloat(ChargeAQ.Text);
1129:   VoltageAQ.Text := FloatToStr(amp / chr);
1130: end;
1131:
1132: procedure TMainForm.ResultClick(Sender: TObject);
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1133: begin
1134:   m := StrToFloat(Weight.Text);
1135:   Strenght.Text := FloatToStr(m * g);
1136: end;
1137:
1138: procedure TMainForm.ResultEClick(Sender: TObject);
1139: var
1140:   Ind: real;
1141: begin
1142:   Ind := StrToFloat(InductanceE.Text);
1143:   amp := StrToFloat(AmperageE.Text);
1144:   EnergyE.Text := FloatToStr((Ind * (amp * amp)) / 2);
1145: end;
1146:
1147: procedure TMainForm.ResultFAClick(Sender: TObject);
1148: begin
1149:   d := StrToFloat(Densitas.Text);
1150:   V := StrToFloat(Capacity.Text);
1151:   StrenghtA.Text := FloatToStr(d * V * g);
1152: end;
1153:
1154: procedure TMainForm.ResultKAClick(Sender: TObject);
1155: begin
1156:   vv0 := StrToFloat(Speed0KA.Text);
1157:   a := StrToFloat(AccelerationKA.Text);
1158:   ti := StrToFloat(TimeKA.Text);
1159:   SpeedKA.Text := FloatToStr(vv0 + a * ti);
1160: end;
1161:
1162: procedure TMainForm.ResultKClick(Sender: TObject);
1163: begin
1164:   S := StrToFloat(ItineraryK.Text);
1165:   ti := StrToFloat(TimeK.Text);
1166:   SpeedK.Text := FloatToStr(S / ti);
1167: end;
1168:
1169: procedure TMainForm.ResultKKClick(Sender: TObject);
1170: begin
1171:   vv := StrToFloat(SpeedKK.Text);
1172:   vv0 := StrToFloat(Speed0KK.Text);
1173:   ti := StrToFloat(TimeKK.Text);
1174:   AccelerationKK.Text := FloatToStr((vv - vv0) / ti);
1175: end;
1176:
1177: procedure TMainForm.ResultKSClick(Sender: TObject);
1178: var tmf: real;
1179: begin
1180:   vv0 := StrToFloat(SpeedKS.Text);
1181:   ti := StrToFloat(TimeKS.Text);
1182:   a := StrToFloat(AccelerationKS.Text);
1183:   tmf := StrToFloat(TimeKSF.Text);
1184:   ItineraryKS.Text := FloatToStr(vv0 * ti + ((a * tmf * tmf) / 2));
1185: end;
1186:
1187: procedure TMainForm.ResultMClick(Sender: TObject);
1188: begin
1189:    F := StrToFloat(StrenghtM.Text);
1190:    len := StrToFloat(Length.Text);
1191:    Moment.Text := FloatToStr(F * len);
1192: end;
1193:
1194: procedure TMainForm.ResultNClick(Sender: TObject);
1195: begin
1196:    AA := StrToFloat(WorkN.Text);
1197:    ti := StrToFloat(TimeN.Text);
1198:    PowerN.Text := FloatToStr(AA / ti);
1199: end;
1200:
1201: procedure TMainForm.ResultOrClick(Sender: TObject);
1202: begin
1203:   m := StrToFloat(WeightOr.Text);
1204:   V := StrToFloat(CapacityOr.Text);
```

```
1205:   DensitasOr.Text := FloatToStr(m / V);
1206: end;
1207:
1208: procedure TMainForm.ResultVClick(Sender: TObject);
1209: begin
1210:   S := StrToFloat(Itinerary.Text);
1211:   ti := StrToFloat(Time.Text);
1212:   Speed.Text := FloatToStr(S / ti);
1213: end;
1214:
1215: procedure TMainForm.ResultVesClick(Sender: TObject);
1216: begin
1217:   m := StrToFloat(WeightVes.Text);
1218:   Ves.Text := FloatToStr(m * g);
1219: end;
1220:
1221: procedure TMainForm.ResultWClick(Sender: TObject);
1222: begin
1223:   d := StrToFloat(DensitasW.Text);
1224:   h := StrToFloat(HeightW.Text);
1225:   PressureW.Text := FloatToStr(d * h * g);
1226: end;
1227:
1228: procedure TMainForm.ResultPClick(Sender: TObject);
1229: begin
1230:   F := StrToFloat(StrenghtP.Text);
1231:   S := StrToFloat(ItineraryP.Text);
1232:   PressureP.Text := FloatToStr(F / S);
1233: end;
1234:
1235: procedure TMainForm.ResultPOClick(Sender: TObject);
1236: begin
1237:   amp := StrToFloat(AmperagePO.Text);
1238:   U := StrToFloat(VoltagePO.Text);
1239:   PowerPO.Text := FloatToStr(amp * U);
1240: end;
1241:
1242: procedure TMainForm.ResultQClick(Sender: TObject);
1243: begin
1244:   chr := StrToFloat(ChargeQ.Text);
1245:   ti := StrToFloat(TimeQ.Text);
1246:   AmperageQ.Text := FloatToStr(chr / ti);
1247: end;
1248:
1249: procedure TMainForm.ResultQQClick(Sender: TObject);
1250: begin
1251:   amp := StrToFloat(AmperageQQ.Text);
1252:   R := StrToFloat(ResistanceQQ.Text);
1253:   t := StrToFloat(TempQQ.Text);
1254:   WarmthQQ.Text := FloatToStr((amp * amp * R * t) / 1000);
1255: end;
1256:
1257: procedure TMainForm.ResultUClick(Sender: TObject);
1258: begin
1259:   U := StrToFloat(VoltageU.Text);
1260:   R := StrToFloat(ResistanceU.Text);
1261:   AmperageU.Text := FloatToStr(U / R);
1262: end;
1263:
1264: procedure TMainForm.StrenghtMClick(Sender: TObject);
1265: begin
1266: StrenghtM.Clear;
1267: end;
1268:
1269: procedure TMainForm.StrenghtPClick(Sender: TObject);
1270: begin
1271:   StrenghtP.Clear;
1272: end;
1273:
1274: procedure TMainForm.TimeClick(Sender: TObject);
1275: begin
1276:   Time.Clear;
```

```
1277: end;
1278:
1279: procedure TMainForm.TimeKAClick(Sender: TObject);
1280: begin
1281:   TimeKA.Clear;
1282: end;
1283:
1284: procedure TMainForm.TimeKClick(Sender: TObject);
1285: begin
1286:   TimeK.Clear;
1287: end;
1288:
1289: procedure TMainForm.TimeKKClick(Sender: TObject);
1290: begin
1291:   TimeKK.Clear;
1292: end;
1293:
1294: procedure TMainForm.TimeKSFClick(Sender: TObject);
1295: begin
1296:   TimeKSF.Clear;
1297: end;
1298:
1299: procedure TMainForm.TimeNClick(Sender: TObject);
1300: begin
1301:   TimeN.Clear;
1302: end;
1303:
1304: procedure TMainForm.TimeQClick(Sender: TObject);
1305: begin
1306:   TimeQ.Clear;
1307: end;
1308:
1309: procedure TMainForm.WeightClick(Sender: TObject);
1310: begin
1311:   Weight.Clear;
1312: end;
1313:
1314: procedure TMainForm.WeightOrClick(Sender: TObject);
1315: begin
1316:   WeightOr.Clear;
1317: end;
1318:
1319: procedure TMainForm.WeightVesClick(Sender: TObject);
1320: begin
1321: WeightVes.Clear;
1322: end;
1323:
1324: procedure TMainForm.WorkNClick(Sender: TObject);
1325: begin
1326: WorkN.Clear;
1327: end;
1328:
1329: procedure TMainForm.FBClick(Sender: TObject);
1330: begin
1331:   StrenghtForm.Show;
1332:   MainForm.Hide;
1333: end;
1334:
1335: procedure TMainForm.ABClick(Sender: TObject);
1336: begin
1337:   WorkForm.Show;
1338:   MainForm.Hide;
1339: end;
1340:
1341: procedure TMainForm.AccelerationKAClick(Sender: TObject);
1342: begin
1343:   AccelerationKA.Clear;
1344: end;
1345:
1346: procedure TMainForm.AccelerationKSClick(Sender: TObject);
1347: begin
1348:   AccelerationKS.Clear;
```

```
1349: end;
1350:
1351: procedure TMainForm.AccelerationKSVClick(Sender: TObject);
1352: begin
1353:   AccelerationKSV.Clear;
1354: end;
1355:
1356: procedure TMainForm.AmperageAQClick(Sender: TObject);
1357: begin
1358:   AmperageAQ.Clear;
1359: end;
1360:
1361: procedure TMainForm.AmperageClick(Sender: TObject);
1362: begin
1363:   Amperage.Clear;
1364: end;
1365:
1366: procedure TMainForm.AmperageEClick(Sender: TObject);
1367: begin
1368:   AmperageE.Clear;
1369: end;
1370:
1371: procedure TMainForm.AmperagePOClick(Sender: TObject);
1372: begin
1373:   AmperagePO.Clear;
1374: end;
1375:
1376: procedure TMainForm.AmperageQQClick(Sender: TObject);
1377: begin
1378:   AmperageQQ.Clear;
1379: end;
1380:
1381: procedure TMainForm.ResultKSVClick(Sender: TObject);
1382: begin
1383:   vv := StrToFloat(SpeedKSV.Text);
1384:   vv0 := StrToFloat(Speed0KSV.Text);
1385:   a := StrToFloat(AccelerationKSV.Text);
1386:   ItineraryKSV.Text := FloatToStr(((vv * vv) - (vv0*vv0)) / (2 * a));
1387: end;
1388:
1389: procedure TMainForm.Button1Click(Sender: TObject);
1390: begin
1391:   Form3.Show;
1392: end;
1393:
1394: procedure TMainForm.CapacityClick(Sender: TObject);
1395: begin
1396:   Capacity.Clear;
1397: end;
1398:
1399: procedure TMainForm.CapacityOrClick(Sender: TObject);
1400: begin
1401:   CapacityOr.Clear;
1402: end;
1403:
1404: procedure TMainForm.ChargeAQClick(Sender: TObject);
1405: begin
1406:   ChargeAQ.Clear;
1407: end;
1408:
1409: procedure TMainForm.ChargeQClick(Sender: TObject);
1410: begin
1411:   ChargeQ.Clear;
1412: end;
1413:
1414: procedure TMainForm.DensitasClick(Sender: TObject);
1415: begin
1416:   Densitas.Clear;
1417: end;
1418:
1419: procedure TMainForm.DensitasWClick(Sender: TObject);
1420: begin
```

```
1421:   DensitasW.Clear;
1422: end;
1423:
1424: procedure TMainForm.EBClick(Sender: TObject);
1425: begin
1426:   EnergyForm.Show;
1427:   MainForm.Hide;
1428: end;
1429:
1430: procedure TMainForm.TimeKSClick(Sender: TObject);
1431: begin
1432:   TimeKS.Clear;
1433: end;
1434:
1435: procedure TMainForm.TempQQClick(Sender: TObject);
1436: begin
1437:   TempQQ.Clear;
1438: end;
1439:
1440: procedure TMainForm.TimeAClick(Sender: TObject);
1441: begin
1442:   TimeA.Clear;
1443: end;
1444:
1445: procedure TMainForm.N1Click(Sender: TObject);
1446: begin
1447:   Form3.Show;
1448: end;
1449:
1450: procedure TMainForm.N3Click(Sender: TObject);
1451: begin
1452:   AboutBox.ShowModal;
1453: end;
1454:
1455: procedure TMainForm.N7Click(Sender: TObject);
1456: begin
1457:   SettingsForm.Show;
1458:   MainForm.Hide;
1459: end;
1460:
1461: end.
```

```
 1: unit Unit2;
 2:
 3: interface
 4:
 5: uses
 6:   Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
 7:   Dialogs, StdCtrls, jpeg, ExtCtrls, Buttons, Vcl.Menus;
 8:
 9: type
10:   TStrenghtForm = class(TForm)
11:     Strenght: TEdit;
12:     Label1: TLabel;
13:     Weight: TEdit;
14:     gggg: TEdit;
15:     Label2: TLabel;
16:     Result: TBitBtn;
17:     name: TLabel;
18:     Description: TLabel;
19:     ci: TLabel;
20:     Image: TImage;
21:     Label7: TLabel;
22:     Label8: TLabel;
23:     Label9: TLabel;
24:     Import: TButton;
25:     par: TLabel;
26:     Label5: TLabel;
27:     Label10: TLabel;
28:     Line: TLabel;
29:     Label3: TLabel;
30:     Label4: TLabel;
31:     Label11: TLabel;
32:     StrenghtA: TEdit;
33:     Label12: TLabel;
34:     Densitas: TEdit;
35:     Label13: TLabel;
36:     Label14: TLabel;
37:     ggggg: TEdit;
38:     Label16: TLabel;
39:     Capacity: TEdit;
40:     Label17: TLabel;
41:     ImportA: TButton;
42:     Label18: TLabel;
43:     Label19: TLabel;
44:     Label20: TLabel;
45:     Strenght2: TEdit;
46:     Label21: TLabel;
47:     Label22: TLabel;
48:     Weight2: TEdit;
49:     Label23: TLabel;
50:     Label24: TLabel;
51:     Acceleration: TEdit;
52:     Label25: TLabel;
53:     Result2: TBitBtn;
54:     Import2: TButton;
55:     Label26: TLabel;
56:     Label27: TLabel;
57:     Label28: TLabel;
58:     StrenghtY: TEdit;
59:     Hardness: TEdit;
60:     Label29: TLabel;
61:     Label30: TLabel;
62:     Label31: TLabel;
63:     Elongation: TEdit;
64:     Label32: TLabel;
65:     Label33: TLabel;
66:     Label34: TLabel;
67:     ResultY: TBitBtn;
68:     ImportY: TBitBtn;
69:     MainMenu: TMainMenu;
70:     N1: TMenuItem;
71:     N7: TMenuItem;
72:     Info: TSpeedButton;
```

```
 73:     InfoA: TSpeedButton;
 74:     Info2: TSpeedButton;
 75:     InfoY: TSpeedButton;
 76:     Scroll: TScrollBox;
 77:     Mem: TEdit;
 78:     StrenghtT: TEdit;
 79:     Label35: TLabel;
 80:     Label36: TLabel;
 81:     Back: TMenuItem;
 82:     Label37: TLabel;
 83:     Label38: TLabel;
 84:     Label39: TLabel;
 85:     WeightT: TEdit;
 86:     Label40: TLabel;
 87:     Label41: TLabel;
 88:     gggggg: TEdit;
 89:     Label43: TLabel;
 90:     Cosine: TEdit;
 91:     Label44: TLabel;
 92:     ResultT: TBitBtn;
 93:     InfoT: TSpeedButton;
 94:     ImportT: TButton;
 95:     EmptyLabelForFun: TLabel;
 96:     Label15: TLabel;
 97:     Label42: TLabel;
 98:     procedure ResultClick(Sender: TObject);
 99:     procedure ImportClick(Sender: TObject);
100:     procedure ResultAClick(Sender: TObject);
101:     procedure ImportAClick(Sender: TObject);
102:     procedure Result2Click(Sender: TObject);
103:     procedure Import2Click(Sender: TObject);
104:     procedure WeightClick(Sender: TObject);
105:     procedure DensitasClick(Sender: TObject);
106:     procedure CapacityClick(Sender: TObject);
107:     procedure Weight2Click(Sender: TObject);
108:     procedure AccelerationClick(Sender: TObject);
109:     procedure ResultYClick(Sender: TObject);
110:     procedure HardnessClick(Sender: TObject);
111:     procedure ElongationClick(Sender: TObject);
112:     procedure ggggChange(Sender: TObject);
113:     procedure ImportYClick(Sender: TObject);
114:     procedure gggggChange(Sender: TObject);
115:     procedure N1Click(Sender: TObject);
116:     procedure N7Click(Sender: TObject);
117:     procedure InfoClick(Sender: TObject);
118:     procedure InfoAClick(Sender: TObject);
119:     procedure Info2Click(Sender: TObject);
120:     procedure InfoYClick(Sender: TObject);
121:     procedure BackClick(Sender: TObject);
122:     procedure gggggggChange(Sender: TObject);
123:     procedure MemClick(Sender: TObject);
124:     procedure WeightTClick(Sender: TObject);
125:     procedure CosineClick(Sender: TObject);
126:     procedure ResultTClick(Sender: TObject);
127:     procedure InfoTClick(Sender: TObject);
128:     procedure ImportTClick(Sender: TObject);
129:     procedure FormMouseWheel(Sender: TObject; Shift: TShiftState;
130:       WheelDelta: Integer; MousePos: TPoint; var Handled: Boolean);
131:     procedure WeightKeyPress(Sender: TObject; var Key: Char);
132:   private
133:     { Private declarations }
134:   public
135:     { Public declarations }
136:   end;
137:
138: var
139:   StrenghtForm: TStrenghtForm;
140:
141: implementation
142:
143: uses MainUnit, Unit3, Unit4;
144: // меню  заметки  настройки
```

```
145:
146: {$R *.dfm}
147:
148: procedure TStrenghtForm.BackClick(Sender: TObject);
149: begin
150:   StrenghtForm.Close;
151:   MainForm.Show;
152: end;
153:
154: procedure TStrenghtForm.ResultClick(Sender: TObject);
155: begin
156:   m := StrToFloat(Weight.Text);
157:   Strenght.Text := FloatToStr(m * g);
158: end;
159:
160: procedure TStrenghtForm.ResultTClick(Sender: TObject);
161: begin
162:   mu := StrToFloat(Mem.Text);
163:   m := StrToFloat(WeightT.Text);
164:   alfa := StrToFloat(Cosine.Text);
165:   rad := alfa * (Pi / 180);
166:   alfa := cos(rad);
167:   StrenghtT.Text := FloatToStr(mu * g * m * alfa);
168: end;
169:
170: procedure TStrenghtForm.ggggChange(Sender: TObject);
171: begin
172:   gggg.Text := ('9,8');
173: end;
174:
175: procedure TStrenghtForm.ImportClick(Sender: TObject);
176: begin
177:   s1 := Strenght.Text;
178:   s2 := Weight.Text;
179:   s3 := gggg.Text;
180:   writeln(TF, 'Сила тяжести: ', s1, 'Н=', s2, 'кг*', s3, 'Н/кг');
181: end;
182:
183: procedure TStrenghtForm.ImportTClick(Sender: TObject);
184: begin
185:   s1 := StrenghtT.Text;
186:   s2 := WeightT.Text;
187:   s3 := Cosine.Text;
188:   s4 := Mem.Text;
189:   s5 := gggggg.Text;
190:   writeln(TF, 'Сила трения: ', s1, 'Н=', s4, '*', s5, 'Н/кг*', s2,
191:     'кг*', s3, '°');
192: end;
193:
194: procedure TStrenghtForm.ResultAClick(Sender: TObject);
195: begin
196:   d := StrToFloat(Densitas.Text);
197:   V := StrToFloat(Capacity.Text);
198:   StrenghtA.Text := FloatToStr(d * V * g);
199: end;
200:
201: procedure TStrenghtForm.gggggChange(Sender: TObject);
202: begin
203:   ggggg.Text := ('9,8');
204: end;
205:
206: procedure TStrenghtForm.gggggChange(Sender: TObject);
207: begin
208:   gggggg.Text := ('9,8');
209: end;
210:
211: procedure TStrenghtForm.ImportAClick(Sender: TObject);
212: begin
213:   s1 := StrenghtA.Text;
214:   s2 := Densitas.Text;
215:   s3 := Capacity.Text;
216:   s4 := gggg.Text;
```

```
217:   writeln(TF, 'Архимедова Сила: ', s1, 'Н=', s2, 'кг/м^3*', s3, 'м^3*',
218:     s4, 'Н/кг');
219: end;
220:
221: procedure TStrenghtForm.Result2Click(Sender: TObject);
222: begin
223:   m := StrToFloat(Weight2.Text);
224:   a := StrToFloat(Acceleration.Text);
225:   Strenght2.Text := FloatToStr(m * a);
226: end;
227:
228: procedure TStrenghtForm.Import2Click(Sender: TObject);
229: begin
230:   s1 := Strenght2.Text;
231:   s2 := Weight2.Text;
232:   s3 := Acceleration.Text;
233:   writeln(TF, 'II закон Ньютона: ', s1, 'Н=', s2, 'кг*', s3, 'м/с^2');
234: end;
235:
236: procedure TStrenghtForm.ResultYClick(Sender: TObject);
237: begin
238:   k := StrToFloat(Hardness.Text);
239:   x := StrToFloat(Elongation.Text);
240:   StrenghtY.Text := FloatToStr(k * x);
241: end;
242:
243: procedure TStrenghtForm.InfoYClick(Sender: TObject);
244: begin
245:   MessageBox(handle,
246:     PChar('При деформации тела возникает сила, которая стремится восстановить прежние размеры
    и форму тела. Эта сила возникает вследствие электромагнитного взаимодействия между молекулами
    вещества. Её называют силой упругости.'),
247:     PChar('Закон Гука'), MB_ICONINFORMATION + MB_OK);
248: end;
249:
250: procedure TStrenghtForm.MemClick(Sender: TObject);
251: begin
252:   Mem.Clear;
253: end;
254:
255: procedure TStrenghtForm.ImportYClick(Sender: TObject);
256: begin
257:   s1 := StrenghtY.Text;
258:   s2 := Hardness.Text;
259:   s3 := Elongation.Text;
260:   writeln(TF, 'Сила упругости: ', s1, 'Н=', s2, 'Н/м*', s3, 'м');
261: end;
262:
263: procedure TStrenghtForm.Info2Click(Sender: TObject);
264: begin
265:   MessageBox(handle,
266:     PChar('Утверждает: в инерциальных системах ускорение, приобретаемое материальной точкой, п
    рямо пропорционально вызывающей его силе, совпадает с ней по направлению и обратно пропорциона
    льно массе материальной точки.'),
267:     PChar('II-ой закон Ньютона'), MB_ICONINFORMATION + MB_OK);
268: end;
269:
270: procedure TStrenghtForm.InfoAClick(Sender: TObject);
271: begin
272:   MessageBox(handle,
273:     PChar('Существование гидростатического давления приводит к тому, что на любое тело, находя
    щееся в жидкости или газе, действует выталкивающая сила. Впервые значение этой силы в жидкостя
    х определил на опыте Архимед.'),
274:     PChar('Закон Архимеда'), MB_ICONINFORMATION + MB_OK);
275: end;
276:
277: procedure TStrenghtForm.InfoClick(Sender: TObject);
278: begin
279:   MessageBox(handle,
280:     PChar('Сила, действующая на любое материальное тело, находящееся вблизи поверхности Земли
    или другого астрономического тела.'),
281:     PChar('Сила тяжести'), MB_ICONINFORMATION + MB_OK);
```

```
282: end;
283:
284: procedure TStrenghtForm.InfoTClick(Sender: TObject);
285: begin
286:   MessageBox(handle,
287:     PChar('Сила, которая возникает при движении одного тела по поверхности другого. Она всегда
     направлена противоположно направлению движения и прямо пропорциональна силе нормального давле
    ния на трущиеся поверхности и зависит от свойств этих поверхностей.'),
288:     PChar('Сила трения'), MB_ICONINFORMATION + MB_OK);
289: end;
290:
291: procedure TStrenghtForm.N1Click(Sender: TObject);
292: begin
293:   Form3.Show;
294: end;
295:
296: procedure TStrenghtForm.N7Click(Sender: TObject);
297: begin
298:   SettingsForm.Show;
299:   StrenghtForm.Hide;
300: end;
301:
302: procedure TStrenghtForm.WeightClick(Sender: TObject);
303: begin
304:   Weight.Clear;
305: end;
306:
307: procedure TStrenghtForm.WeightKeyPress(Sender: TObject; var Key: Char);
308: begin
309:   if not(Key in ['0'..'9', ',', #8]) then
310:     Key:=#0
311: end;
312:
313: procedure TStrenghtForm.WeightTClick(Sender: TObject);
314: begin
315:   WeightT.Clear;
316: end;
317:
318: procedure TStrenghtForm.DensitasClick(Sender: TObject);
319: begin
320:   Densitas.Clear;
321: end;
322:
323: procedure TStrenghtForm.CapacityClick(Sender: TObject);
324: begin
325:   Capacity.Clear;
326: end;
327:
328: procedure TStrenghtForm.CosineClick(Sender: TObject);
329: begin
330:   Cosine.Clear;
331: end;
332:
333: procedure TStrenghtForm.Weight2Click(Sender: TObject);
334: begin
335:   Weight2.Clear;
336: end;
337:
338: procedure TStrenghtForm.AccelerationClick(Sender: TObject);
339: begin
340:   Acceleration.Clear;
341: end;
342:
343: procedure TStrenghtForm.HardnessClick(Sender: TObject);
344: begin
345:   Hardness.Clear;
346: end;
347:
348: procedure TStrenghtForm.ElongationClick(Sender: TObject);
349: begin
350:   Elongation.Clear;
351: end;
```

```
352:
353: procedure TStrenghtForm.FormMouseWheel(Sender: TObject; Shift: TShiftState;
354:   WheelDelta: Integer; MousePos: TPoint; var Handled: Boolean);
355: begin
356:   Scroll.VertScrollBar.Position := Scroll.VertScrollBar.Position - WheelDelta;
357: end;
358:
359: end.
```

```
 1: unit Unit5;
 2:
 3: interface
 4:
 5: uses
 6:   Winapi.Windows, Winapi.Messages, System.SysUtils, System.Variants,
 7:   System.Classes, Vcl.Graphics,
 8:   Vcl.Controls, Vcl.Forms, Vcl.Dialogs, Vcl.Menus, Vcl.Imaging.pngimage,
 9:   Vcl.ExtCtrls, Vcl.StdCtrls, Vcl.Buttons, Vcl.Imaging.jpeg;
10:
11: type
12:   TWarmthForm = class(TForm)
13:     MainMenu: TMainMenu;
14:     Back: TMenuItem;
15:     N1: TMenuItem;
16:     N7: TMenuItem;
17:     Image1: TImage;
18:     name: TLabel;
19:     ci: TLabel;
20:     par: TLabel;
21:     Result: TBitBtn;
22:     Label9: TLabel;
23:     Temp: TEdit;
24:     Label2: TLabel;
25:     Label8: TLabel;
26:     Weight: TEdit;
27:     Label1: TLabel;
28:     Warmth: TEdit;
29:     Label7: TLabel;
30:     Import: TButton;
31:     Info: TSpeedButton;
32:     Line: TLabel;
33:     Label10: TLabel;
34:     Label5: TLabel;
35:     Description: TLabel;
36:     Label3: TLabel;
37:     cccc: TEdit;
38:     Label4: TLabel;
39:     Label6: TLabel;
40:     ImportY: TButton;
41:     ResultY: TBitBtn;
42:     Label14: TLabel;
43:     Label12: TLabel;
44:     Label18: TLabel;
45:     InfoY: TSpeedButton;
46:     Label20: TLabel;
47:     Label19: TLabel;
48:     WarmthY: TEdit;
49:     Label11: TLabel;
50:     Label13: TLabel;
51:     Label15: TLabel;
52:     WeightY: TEdit;
53:     YYYY: TEdit;
54:     ResultP: TBitBtn;
55:     ImportP: TButton;
56:     Label24: TLabel;
57:     Label23: TLabel;
58:     WeightP: TEdit;
59:     Label22: TLabel;
60:     Label26: TLabel;
61:     Label21: TLabel;
62:     WarmthP: TEdit;
63:     InfoP: TSpeedButton;
64:     Label16: TLabel;
65:     Label17: TLabel;
66:     LLLL: TEdit;
67:     Label25: TLabel;
68:     ResultA: TBitBtn;
69:     ImportA: TBitBtn;
70:     Label33: TLabel;
71:     Resistance: TEdit;
72:     Label31: TLabel;
```

```
 73:     Label35: TLabel;
 74:     Amperage: TEdit;
 75:     Label30: TLabel;
 76:     Label29: TLabel;
 77:     WarmthA: TEdit;
 78:     Label28: TLabel;
 79:     Label27: TLabel;
 80:     InfoA: TSpeedButton;
 81:     Label32: TLabel;
 82:     Label36: TLabel;
 83:     TempA: TEdit;
 84:     Label37: TLabel;
 85:     procedure BackClick(Sender: TObject);
 86:     procedure InfoClick(Sender: TObject);
 87:     procedure ccccClick(Sender: TObject);
 88:     procedure WeightClick(Sender: TObject);
 89:     procedure TempClick(Sender: TObject);
 90:     procedure ResultClick(Sender: TObject);
 91:     procedure ImportClick(Sender: TObject);
 92:     procedure InfoYClick(Sender: TObject);
 93:     procedure ResultYClick(Sender: TObject);
 94:     procedure YYYYClick(Sender: TObject);
 95:     procedure WeightYClick(Sender: TObject);
 96:     procedure ImportYClick(Sender: TObject);
 97:     procedure InfoPClick(Sender: TObject);
 98:     procedure ResultPClick(Sender: TObject);
 99:     procedure LLLLClick(Sender: TObject);
100:     procedure WeightPClick(Sender: TObject);
101:     procedure ImportPClick(Sender: TObject);
102:     procedure InfoAClick(Sender: TObject);
103:     procedure ResultAClick(Sender: TObject);
104:     procedure AmperageClick(Sender: TObject);
105:     procedure TempAClick(Sender: TObject);
106:     procedure ImportAClick(Sender: TObject);
107:     procedure ResistanceClick(Sender: TObject);
108:     procedure N1Click(Sender: TObject);
109:     procedure N7Click(Sender: TObject);
110:     procedure ccccKeyPress(Sender: TObject; var Key: Char);
111:   private
112:     { Private declarations }
113:   public
114:     { Public declarations }
115:   end;
116:
117: var
118:   WarmthForm: TWarmthForm;
119:
120: implementation
121:
122: uses MainUnit, Unit3, Unit4;
123:
124: {$R *.dfm}
125:
126: procedure TWarmthForm.AmperageClick(Sender: TObject);
127: begin
128:   Amperage.Clear;
129: end;
130:
131: procedure TWarmthForm.BackClick(Sender: TObject);
132: begin
133:   WarmthForm.Close;
134:   MainForm.Show;
135: end;
136:
137: procedure TWarmthForm.ccccClick(Sender: TObject);
138: begin
139:   cccc.Clear;
140: end;
141:
142: procedure TWarmthForm.ccccKeyPress(Sender: TObject; var Key: Char);
143: begin
144:   if not(Key in ['0'..'9', ',', #8]) then
```

```
145:     Key:=#0
146: end;
147:
148: procedure TWarmthForm.ImportPClick(Sender: TObject);
149: begin
150:   s1 := WarmthP.Text;
151:   s2 := LLLL.Text;
152:   s3 := WeightP.Text;
153:   writeln(TF, 'Теплота парообразования: ', s1, 'кДж=', s2, 'Дж/кг', s3, 'кг');
154: end;
155:
156: procedure TWarmthForm.ImportYClick(Sender: TObject);
157: begin
158:   s1 := WarmthY.Text;
159:   s2 := YYYY.Text;
160:   s3 := WeightY.Text;
161:   writeln(TF, 'Теплота плавления: ', s1, 'кДж=', s2, 'Дж/кг*', s3, 'кг');
162: end;
163:
164: procedure TWarmthForm.ImportAClick(Sender: TObject);
165: begin
166:   s1 := WarmthA.Text;
167:   s2 := Amperage.Text;
168:   s3 := Resistance.Text;
169:   s4 := TempA.Text;
170:   writeln(TF, 'Теплота проводника: ', s1, 'кДж=', s2, '^2A*', s3, 'Ом*',
171:     s4, '°C');
172: end;
173:
174: procedure TWarmthForm.ImportClick(Sender: TObject);
175: begin
176:   s1 := Warmth.Text;
177:   s2 := cccc.Text;
178:   s3 := Weight.Text;
179:   s4 := Temp.Text;
180:   writeln(TF, 'Теплота нагревания: ', s1, 'кДж=', s2, 'кг*°C*', s3, 'кг*',
181:     s4, '°C');
182: end;
183:
184: procedure TWarmthForm.InfoAClick(Sender: TObject);
185: begin
186:   MessageBox(handle,
187:     PChar('Физический закон, дающий количественную оценку теплового действия электрического то
    ка.'),
188:     PChar('Закон Джоуля-Ленца'), MB_ICONINFORMATION + MB_OK);
189: end;
190:
191: procedure TWarmthForm.InfoClick(Sender: TObject);
192: begin
193:   MessageBox(handle,
194:     PChar('Показывает, сколько энергии было затрачено на нагревание тела.'),
195:     PChar('Теплота нагревания'), MB_ICONINFORMATION + MB_OK);
196: end;
197:
198: procedure TWarmthForm.InfoPClick(Sender: TObject);
199: begin
200:   MessageBox(handle,
201:     PChar('Показывает, сколько энергии было затрачено для превращения жидксти в пар в процессе
    кипения.'),
202:     PChar('Теплота парообразования'), MB_ICONINFORMATION + MB_OK);
203: end;
204:
205: procedure TWarmthForm.InfoYClick(Sender: TObject);
206: begin
207:   MessageBox(handle,
208:     PChar('Показывает, сколько энергии было затрачено на плавление тела.'),
209:     PChar('Теплота плавления'), MB_ICONINFORMATION + MB_OK);
210: end;
211:
212: procedure TWarmthForm.LLLLClick(Sender: TObject);
213: begin
214:   LLLL.Clear;
```

```
215: end;
216:
217: procedure TWarmthForm.N1Click(Sender: TObject);
218: begin
219: Form3.Show;
220: end;
221:
222: procedure TWarmthForm.N7Click(Sender: TObject);
223: begin
224: WarmthForm.Close;
225: SettingsForm.Show;
226: end;
227:
228: procedure TWarmthForm.ResultPClick(Sender: TObject);
229: begin
230:   L := StrToFloat(LLLL.Text);
231:   m := StrToFloat(WeightP.Text);
232:   WarmthP.Text := FloatToStr((L * m) / 1000);
233: end;
234:
235: procedure TWarmthForm.ResultYClick(Sender: TObject);
236: begin
237:   Y := StrToFloat(YYYY.Text);
238:   m := StrToFloat(WeightY.Text);
239:   WarmthY.Text := FloatToStr((Y * m) / 1000);
240: end;
241:
242: procedure TWarmthForm.ResistanceClick(Sender: TObject);
243: begin
244:   Resistance.Clear;
245: end;
246:
247: procedure TWarmthForm.ResultAClick(Sender: TObject);
248: begin
249:   amp := StrToFloat(Amperage.Text);
250:   R := StrToFloat(Resistance.Text);
251:   t := StrToFloat(TempA.Text);
252:   WarmthA.Text := FloatToStr((amp * amp * R * t) / 1000);
253: end;
254:
255: procedure TWarmthForm.ResultClick(Sender: TObject);
256: begin
257:   c := StrToFloat(cccc.Text);
258:   m := StrToFloat(Weight.Text);
259:   t := StrToFloat(Temp.Text);
260:   Warmth.Text := FloatToStr((c * m * t) / 1000);
261: end;
262:
263: procedure TWarmthForm.TempAClick(Sender: TObject);
264: begin
265:   TempA.Clear;
266: end;
267:
268: procedure TWarmthForm.TempClick(Sender: TObject);
269: begin
270:   Temp.Clear;
271: end;
272:
273: procedure TWarmthForm.WeightClick(Sender: TObject);
274: begin
275:   Weight.Clear;
276: end;
277:
278: procedure TWarmthForm.WeightPClick(Sender: TObject);
279: begin
280:   WeightP.Clear;
281: end;
282:
283: procedure TWarmthForm.WeightYClick(Sender: TObject);
284: begin
285:   WeightY.Clear;
286: end;
```

```
287:
288: procedure TWarmthForm.YYYYClick(Sender: TObject);
289: begin
290:   YYYY.Clear;
291: end;
292:
293: end.
```

```
 1: unit Unit6;
 2:
 3: interface
 4:
 5: uses
 6:   Winapi.Windows, Winapi.Messages, System.SysUtils, System.Variants,
 7:   System.Classes, Vcl.Graphics,
 8:   Vcl.Controls, Vcl.Forms, Vcl.Dialogs, Vcl.Menus, Vcl.Imaging.jpeg,
 9:   Vcl.ExtCtrls, Vcl.StdCtrls, Vcl.Buttons;
10:
11: type
12:   TWorkForm = class(TForm)
13:     MainMenu: TMainMenu;
14:     Back: TMenuItem;
15:     N1: TMenuItem;
16:     N7: TMenuItem;
17:     Image: TImage;
18:     Description: TLabel;
19:     ci: TLabel;
20:     name: TLabel;
21:     par: TLabel;
22:     ImportA: TButton;
23:     ResultA: TBitBtn;
24:     WorkA: TEdit;
25:     InfoA: TSpeedButton;
26:     Label10: TLabel;
27:     Label5: TLabel;
28:     Label7: TLabel;
29:     Time: TEdit;
30:     Label9: TLabel;
31:     Label6: TLabel;
32:     Label8: TLabel;
33:     Voltage: TEdit;
34:     Label2: TLabel;
35:     Label4: TLabel;
36:     Amperage: TEdit;
37:     Label1: TLabel;
38:     Line: TLabel;
39:     Cosine: TEdit;
40:     Label11: TLabel;
41:     Label12: TLabel;
42:     Itinerary: TEdit;
43:     Label13: TLabel;
44:     Label14: TLabel;
45:     Strenght: TEdit;
46:     Label15: TLabel;
47:     Label16: TLabel;
48:     WorkFS: TEdit;
49:     Label17: TLabel;
50:     Label18: TLabel;
51:     Label19: TLabel;
52:     Label44: TLabel;
53:     ImportFS: TButton;
54:     ResultFS: TBitBtn;
55:     InfoFS: TSpeedButton;
56:     Label3: TLabel;
57:     Label20: TLabel;
58:     WorkNT: TEdit;
59:     Label21: TLabel;
60:     Label22: TLabel;
61:     Label23: TLabel;
62:     Label24: TLabel;
63:     TimeNT: TEdit;
64:     Power: TEdit;
65:     Label25: TLabel;
66:     Label26: TLabel;
67:     Label27: TLabel;
68:     ImportNT: TButton;
69:     ResultNT: TBitBtn;
70:     Label28: TLabel;
71:     InfoNT: TSpeedButton;
72:     Label29: TLabel;
```

```
 73:     Label30: TLabel;
 74:     Label31: TLabel;
 75:     WorkMGH: TEdit;
 76:     Label32: TLabel;
 77:     Label33: TLabel;
 78:     Weight: TEdit;
 79:     Label34: TLabel;
 80:     gggg: TEdit;
 81:     Label35: TLabel;
 82:     Height: TEdit;
 83:     Label36: TLabel;
 84:     Label37: TLabel;
 85:     Label38: TLabel;
 86:     ResultMGH: TBitBtn;
 87:     ImportMGH: TButton;
 88:     InfoMGH: TSpeedButton;
 89:     Label39: TLabel;
 90:     Scroll: TScrollBox;
 91:     Label40: TLabel;
 92:     Label41: TLabel;
 93:     WorkTerm: TEdit;
 94:     Label42: TLabel;
 95:     Label43: TLabel;
 96:     Pressure: TEdit;
 97:     Label45: TLabel;
 98:     Label46: TLabel;
 99:     Capacity: TEdit;
100:     Label47: TLabel;
101:     ResultTerm: TBitBtn;
102:     ImportTerm: TButton;
103:     InfoTerm: TSpeedButton;
104:     Work: TEdit;
105:     Label48: TLabel;
106:     Label49: TLabel;
107:     Label50: TLabel;
108:     WorkP: TEdit;
109:     Label51: TLabel;
110:     Label52: TLabel;
111:     WorkZ: TEdit;
112:     Label53: TLabel;
113:     Label54: TLabel;
114:     Label55: TLabel;
115:     Label56: TLabel;
116:     Label57: TLabel;
117:     Percent: TEdit;
118:     ResultKPD: TBitBtn;
119:     Import: TButton;
120:     Phantom: TLabel;
121:     InfoKPD: TSpeedButton;
122:     procedure BackClick(Sender: TObject);
123:     procedure N1Click(Sender: TObject);
124:     procedure N7Click(Sender: TObject);
125:     procedure ResultAClick(Sender: TObject);
126:     procedure ImportAClick(Sender: TObject);
127:     procedure InfoAClick(Sender: TObject);
128:     procedure ResultFSClick(Sender: TObject);
129:     procedure AmperageClick(Sender: TObject);
130:     procedure VoltageClick(Sender: TObject);
131:     procedure TimeClick(Sender: TObject);
132:     procedure StrenghtClick(Sender: TObject);
133:     procedure ItineraryClick(Sender: TObject);
134:     procedure CosineClick(Sender: TObject);
135:     procedure ImportFSClick(Sender: TObject);
136:     procedure InfoFSClick(Sender: TObject);
137:     procedure PowerClick(Sender: TObject);
138:     procedure TimeNTClick(Sender: TObject);
139:     procedure ResultNTClick(Sender: TObject);
140:     procedure ImportNTClick(Sender: TObject);
141:     procedure ResultMGHClick(Sender: TObject);
142:     procedure HeightClick(Sender: TObject);
143:     procedure ImportMGHClick(Sender: TObject);
144:     procedure ScrollMouseWheel(Sender: TObject; Shift: TShiftState;
```

```
145:       WheelDelta: Integer; MousePos: TPoint; var Handled: Boolean);
146:     procedure ResultTermClick(Sender: TObject);
147:     procedure ImportTermClick(Sender: TObject);
148:     procedure InfoTermClick(Sender: TObject);
149:     procedure ResultKPDClick(Sender: TObject);
150:     procedure PressureClick(Sender: TObject);
151:     procedure CapacityClick(Sender: TObject);
152:     procedure WorkPClick(Sender: TObject);
153:     procedure WorkZClick(Sender: TObject);
154:     procedure WeightClick(Sender: TObject);
155:     procedure ggggChange(Sender: TObject);
156:     procedure ImportClick(Sender: TObject);
157:     procedure InfoKPDClick(Sender: TObject);
158:     procedure AmperageKeyPress(Sender: TObject; var Key: Char);
159:     procedure PercentChange(Sender: TObject);
160:   private
161:     { Private declarations }
162:   public
163:     { Public declarations }
164:   end;
165:
166: var
167:   WorkForm: TWorkForm;
168:   APOL, AZAT: real;
169:
170: const
171:   per = 100;
172:
173: implementation
174:
175: uses MainUnit, Unit3, Unit4;
176:
177: {$R *.dfm}
178:
179:
180: procedure TWorkForm.AmperageClick(Sender: TObject);
181: begin
182:   Amperage.Clear;
183: end;
184:
185: procedure TWorkForm.AmperageKeyPress(Sender: TObject; var Key: Char);
186: begin
187:   if not(Key in ['0'..'9', ',', #8]) then
188:     Key:=#0
189: end;
190:
191: procedure TWorkForm.BackClick(Sender: TObject);
192: begin
193:   WorkForm.Close;
194:   MainForm.Show;
195: end;
196:
197: procedure TWorkForm.CapacityClick(Sender: TObject);
198: begin
199:   Capacity.Clear;
200: end;
201:
202: procedure TWorkForm.CosineClick(Sender: TObject);
203: begin
204:   Cosine.Clear;
205: end;
206:
207: procedure TWorkForm.ggggChange(Sender: TObject);
208: begin
209:   gggg.Text := '9,8';
210: end;
211:
212: procedure TWorkForm.HeightClick(Sender: TObject);
213: begin
214:   Height.Clear;
215: end;
216:
```

```
217: procedure TWorkForm.ImportAClick(Sender: TObject);
218: begin
219:   s1 := WorkA.Text;
220:   s2 := Amperage.Text;
221:   s3 := Voltage.Text;
222:   s4 := Time.Text;
223:   writeln(TF, 'Работа электрического тока: ', s1, 'кДж=', s2, 'A*', s3, 'B*',
224:     s4, 'сек');
225: end;
226:
227: procedure TWorkForm.ImportClick(Sender: TObject);
228: begin
229:   s1 := WorkP.Text;
230:   s2 := WorkZ.Text;
231:   s3 := Percent.Text;
232:   s4 := Work.Text;
233:   writeln(TF, 'КПД: ', s4, '=', s1, '/', s2, '*', s3);
234: end;
235:
236: procedure TWorkForm.ImportFSClick(Sender: TObject);
237: begin
238:   s1 := WorkFS.Text;
239:   s2 := Strenght.Text;
240:   s3 := Itinerary.Text;
241:   s4 := Cosine.Text;
242:   writeln(TF, 'Механическая работа: ', s1, 'кДж=', s2, 'H*', s3, 'м*', s4, '°');
243: end;
244:
245: procedure TWorkForm.ImportMGHClick(Sender: TObject);
246: begin
247:   s1 := WorkMGH.Text;
248:   s2 := Weight.Text;
249:   s3 := gggg.Text;
250:   s4 := Height.Text;
251:   writeln(TF, 'Механическая работа: ', s1, 'кДж=', s2, 'кг*', s3,
252:     'H/кг*', s4, 'м');
253: end;
254:
255: procedure TWorkForm.ImportNTClick(Sender: TObject);
256: begin
257:   s1 := WorkNT.Text;
258:   s2 := Power.Text;
259:   s3 := TimeNT.Text;
260:   writeln(TF, 'Механическая работа: ', s1, 'кДж=', s2, 'Вт*', s3, 'сек');
261: end;
262:
263: procedure TWorkForm.ImportTermClick(Sender: TObject);
264: begin
265:   s1 := WorkTerm.Text;
266:   s2 := Pressure.Text;
267:   s3 := Capacity.Text;
268:   writeln(TF, 'Работа в тепмодинамике: ', s1, 'кДж=', s2, 'Па*', s3, 'м^3');
269: end;
270:
271: procedure TWorkForm.InfoAClick(Sender: TObject);
272: begin
273:   MessageBox(handle,
274:     PChar('В проводнике носители заряда движутся под действием электрического поля, а при пере
    носе заряда совершается работа.'),
275:     PChar('Работа электрического тока'), MB_ICONINFORMATION + MB_OK);
276: end;
277:
278: procedure TWorkForm.InfoKPDClick(Sender: TObject);
279: begin
280:   MessageBox(handle,
281:     PChar('Характеристика эффективности системы в отношении преобразования или передачи энерги
    и. КПД является безразмерной величиной и часто измеряется в процентах.'),
282:     PChar('Коофицент полезного действия'), MB_ICONINFORMATION + MB_OK);
283: end;
284:
285: procedure TWorkForm.InfoTermClick(Sender: TObject);
286: begin
```

```
287:   MessageBox(handle,
288:     PChar('Под работой в термодинамике, понимают как действие обмена энергией между термодинам
      ической системой и окружающей средой, так и количественную меру этого действия, то есть величи
      ну передаваемой энергии.'),
289:     PChar('Работа в термодинамике'), MB_ICONINFORMATION + MB_OK);
290: end;
291:
292: procedure TWorkForm.InfoFSClick(Sender: TObject);
293: begin
294:   MessageBox(handle,
295:     PChar('Скалярная количественная мера действия равнодействующей сил на тело.Работа сил по п
      еремещению системы материальных точек определяется как сумма работ этих сил по перемещению каж
      дой точки.'),
296:     PChar('Механическая работа'), MB_ICONINFORMATION + MB_OK);
297: end;
298:
299: procedure TWorkForm.ItineraryClick(Sender: TObject);
300: begin
301:   Itinerary.Clear;
302: end;
303:
304: procedure TWorkForm.N1Click(Sender: TObject);
305: begin
306:   Form3.Show;
307: end;
308:
309: procedure TWorkForm.N7Click(Sender: TObject);
310: begin
311:   WorkForm.Close;
312:   SettingsForm.Show;
313: end;
314:
315: procedure TWorkForm.PercentChange(Sender: TObject);
316: begin
317:   Percent.Text := '100%';
318: end;
319:
320: procedure TWorkForm.PowerClick(Sender: TObject);
321: begin
322:   Power.Clear;
323: end;
324:
325: procedure TWorkForm.PressureClick(Sender: TObject);
326: begin
327:   Pressure.Clear;
328: end;
329:
330: procedure TWorkForm.ResultAClick(Sender: TObject);
331: begin
332:   amp := StrToFloat(Amperage.Text);
333:   U := StrToFloat(Voltage.Text);
334:   ti := StrToFloat(Time.Text);
335:   WorkA.Text := FloatToStr((amp * U * ti) / 1000);
336: end;
337:
338: procedure TWorkForm.ResultKPDClick(Sender: TObject);
339: begin
340:   APOL := StrToFloat(WorkP.Text);
341:   AZAT := StrToFloat(WorkZ.Text);
342:   Work.Text := FloatToStr((APOL / AZAT) * per);
343: end;
344:
345: procedure TWorkForm.ResultMGHClick(Sender: TObject);
346: begin
347:   m := StrToFloat(Weight.Text);
348:   h := StrToFloat(Height.Text);
349:   WorkMGH.Text := FloatToStr((m * g * h) / 1000);
350: end;
351:
352: procedure TWorkForm.ResultFSClick(Sender: TObject);
353: begin
354:   F := StrToFloat(Strenght.Text);
```

```
355:   S := StrToFloat(Itinerary.Text);
356:   alfa := StrToFloat(Cosine.Text);
357:   rad := alfa * (Pi / 180);
358:   alfa := cos(rad);
359:   WorkFS.Text := FloatToStr((F * S * alfa) / 1000);
360: end;
361:
362: procedure TWorkForm.ResultNTClick(Sender: TObject);
363: begin
364:   pow := StrToFloat(Power.Text);
365:   ti := StrToFloat(TimeNT.Text);
366:   WorkNT.Text := FloatToStr((pow * ti) / 1000);
367: end;
368:
369: procedure TWorkForm.ResultTermClick(Sender: TObject);
370: begin
371:   p := StrToFloat(Pressure.Text);
372:   V := StrToFloat(Capacity.Text);
373:   WorkTerm.Text := FloatToStr((p * V) / 1000);
374: end;
375:
376: procedure TWorkForm.ScrollMouseWheel(Sender: TObject; Shift: TShiftState;
377:   WheelDelta: Integer; MousePos: TPoint; var Handled: Boolean);
378: begin
379:   Scroll.VertScrollBar.Position := Scroll.VertScrollBar.Position - WheelDelta;
380: end;
381:
382: procedure TWorkForm.StrenghtClick(Sender: TObject);
383: begin
384:   Strenght.Clear;
385: end;
386:
387: procedure TWorkForm.TimeClick(Sender: TObject);
388: begin
389:   Time.Clear;
390: end;
391:
392: procedure TWorkForm.TimeNTClick(Sender: TObject);
393: begin
394:   TimeNT.Clear;
395: end;
396:
397: procedure TWorkForm.VoltageClick(Sender: TObject);
398: begin
399:   Voltage.Clear;
400: end;
401:
402: procedure TWorkForm.WeightClick(Sender: TObject);
403: begin
404:   Weight.Clear;
405: end;
406:
407: procedure TWorkForm.WorkPClick(Sender: TObject);
408: begin
409:   WorkP.Clear;
410: end;
411:
412: procedure TWorkForm.WorkZClick(Sender: TObject);
413: begin
414:   WorkZ.Clear;
415: end;
416:
417: end.
```

```
 1: unit Unit7;
 2:
 3: interface
 4:
 5: uses
 6:   Winapi.Windows, Winapi.Messages, System.SysUtils, System.Variants,
 7:   System.Classes, Vcl.Graphics,
 8:   Vcl.Controls, Vcl.Forms, Vcl.Dialogs, Vcl.Imaging.jpeg, Vcl.ExtCtrls,
 9:   Vcl.StdCtrls, Vcl.Menus, Vcl.Buttons;
10:
11: type
12:   TEnergyForm = class(TForm)
13:     Image: TImage;
14:     MainMenu: TMainMenu;
15:     Back: TMenuItem;
16:     N1: TMenuItem;
17:     N7: TMenuItem;
18:     par: TLabel;
19:     ci: TLabel;
20:     name: TLabel;
21:     Label3: TLabel;
22:     Description: TLabel;
23:     Label1: TLabel;
24:     ResultKine: TBitBtn;
25:     ImportKine: TButton;
26:     Label57: TLabel;
27:     WeightKine: TEdit;
28:     Label55: TLabel;
29:     Just2: TEdit;
30:     Label52: TLabel;
31:     Kinematics: TEdit;
32:     Label53: TLabel;
33:     Label49: TLabel;
34:     Label16: TLabel;
35:     Label51: TLabel;
36:     SpeedKine: TEdit;
37:     Label32: TLabel;
38:     Label2: TLabel;
39:     InfoKine: TSpeedButton;
40:     Label48: TLabel;
41:     Potential: TEdit;
42:     Label4: TLabel;
43:     ResultP: TBitBtn;
44:     Label5: TLabel;
45:     Label6: TLabel;
46:     Label7: TLabel;
47:     Label8: TLabel;
48:     Label9: TLabel;
49:     Label10: TLabel;
50:     Label11: TLabel;
51:     Label12: TLabel;
52:     Label13: TLabel;
53:     Just2b: TEdit;
54:     InfoP: TSpeedButton;
55:     ImportP: TButton;
56:     Elongation: TEdit;
57:     Hardness: TEdit;
58:     Label14: TLabel;
59:     PotentialMGH: TEdit;
60:     Label39: TLabel;
61:     ImportMGH: TButton;
62:     ResultMGH: TBitBtn;
63:     Label38: TLabel;
64:     Height: TEdit;
65:     Label35: TLabel;
66:     Label37: TLabel;
67:     Label34: TLabel;
68:     gggg: TEdit;
69:     Label36: TLabel;
70:     WeightMGH: TEdit;
71:     Label33: TLabel;
72:     Label15: TLabel;
```

```
 73:     Label29: TLabel;
 74:     Label30: TLabel;
 75:     InfoMGH: TSpeedButton;
 76:     ImportK: TButton;
 77:     Label17: TLabel;
 78:     Temp: TEdit;
 79:     Label18: TLabel;
 80:     Boltzmann: TEdit;
 81:     Label19: TLabel;
 82:     Label20: TLabel;
 83:     Just2c: TEdit;
 84:     Free: TEdit;
 85:     Label21: TLabel;
 86:     Label22: TLabel;
 87:     Label23: TLabel;
 88:     KineK: TEdit;
 89:     ResultK: TBitBtn;
 90:     Label24: TLabel;
 91:     Label25: TLabel;
 92:     Label26: TLabel;
 93:     Label27: TLabel;
 94:     Label28: TLabel;
 95:     Scroll: TScrollBox;
 96:     InfoK: TSpeedButton;
 97:     procedure BackClick(Sender: TObject);
 98:     procedure N1Click(Sender: TObject);
 99:     procedure N7Click(Sender: TObject);
100:     procedure ResultKineClick(Sender: TObject);
101:     procedure WeightKineClick(Sender: TObject);
102:     procedure SpeedKineClick(Sender: TObject);
103:     procedure Just2Change(Sender: TObject);
104:     procedure ImportKineClick(Sender: TObject);
105:     procedure InfoKineClick(Sender: TObject);
106:     procedure ResultPClick(Sender: TObject);
107:     procedure ImportPClick(Sender: TObject);
108:     procedure InfoPClick(Sender: TObject);
109:     procedure HardnessClick(Sender: TObject);
110:     procedure ElongationClick(Sender: TObject);
111:     procedure Just2bChange(Sender: TObject);
112:     procedure ResultMGHClick(Sender: TObject);
113:     procedure WeightMGHClick(Sender: TObject);
114:     procedure HeightClick(Sender: TObject);
115:     procedure ggggChange(Sender: TObject);
116:     procedure ImportMGHClick(Sender: TObject);
117:     procedure BitBtn1Click(Sender: TObject);
118:     procedure Just2cChange(Sender: TObject);
119:     procedure BoltzmannChange(Sender: TObject);
120:     procedure ImportKClick(Sender: TObject);
121:     procedure InfoKClick(Sender: TObject);
122:     procedure FreeClick(Sender: TObject);
123:     procedure ScrollMouseWheel(Sender: TObject; Shift: TShiftState;
124:       WheelDelta: Integer; MousePos: TPoint; var Handled: Boolean);
125:     procedure WeightKineKeyPress(Sender: TObject; var Key: Char);
126:   private
127:     { Private declarations }
128:   public
129:     { Public declarations }
130:   end;
131:
132: var
133:   EnergyForm: TEnergyForm;
134:
135: implementation
136:
137: uses MainUnit, Unit3, Unit4;
138:
139: {$R *.dfm}
140:
141: procedure TEnergyForm.BackClick(Sender: TObject);
142: begin
143:   EnergyForm.Close;
144:   mainForm.Show;
```

```
145: end;
146:
147: procedure TEnergyForm.BitBtn1Click(Sender: TObject);
148: begin
149:   Tk := StrToFloat(Temp.Text);
150:   ii := StrToFloat(Free.Text);
151:   KineK.Text := FloatToStr(((ii / 2) * kB * Tk) / 1000);
152: end;
153:
154: procedure TEnergyForm.BoltzmannChange(Sender: TObject);
155: begin
156:   Boltzmann.Text := 'k';
157: end;
158:
159: procedure TEnergyForm.ElongationClick(Sender: TObject);
160: begin
161:   Elongation.Clear;
162: end;
163:
164: procedure TEnergyForm.FreeClick(Sender: TObject);
165: begin
166:   Free.Clear;
167: end;
168:
169: procedure TEnergyForm.ggggChange(Sender: TObject);
170: begin
171:   gggg.Text := '9,8';
172: end;
173:
174: procedure TEnergyForm.HardnessClick(Sender: TObject);
175: begin
176:   Hardness.Clear;
177: end;
178:
179: procedure TEnergyForm.HeightClick(Sender: TObject);
180: begin
181:   Height.Clear;
182: end;
183:
184: procedure TEnergyForm.ImportKClick(Sender: TObject);
185: begin
186:   s1 := KineK.Text;
187:   s2 := Free.Text;
188:   s3 := Temp.Text;
189:   writeln(TF, 'Средняя кинетич. Е движения молекул: ', s1, 'кДж=', s2,
190:     '/2*10^(-23)Дж/кг*', s3, 'К');
191: end;
192:
193: procedure TEnergyForm.ImportKineClick(Sender: TObject);
194: begin
195:   s1 := Kinematics.Text;
196:   s2 := WeightKine.Text;
197:   s3 := SpeedKine.Text;
198:   writeln(TF, 'Кинетическая энергия: ', s1, 'кДж=(', s2, 'кг*', s3, '^2м/с)/2');
199: end;
200:
201: procedure TEnergyForm.ImportMGHClick(Sender: TObject);
202: begin
203:   s1 := PotentialMGH.Text;
204:   s2 := WeightMGH.Text;
205:   s3 := gggg.Text;
206:   s4 := Height.Text;
207:   writeln(TF, 'Потенциальная энергия: ', s1, 'кДж=', s2, 'кг*', s3,
208:     'Н/кг*', s4, 'м');
209: end;
210:
211: procedure TEnergyForm.ImportPClick(Sender: TObject);
212: begin
213:   s1 := Potential.Text;
214:   s2 := Hardness.Text;
215:   s3 := Elongation.Text;
216:   writeln(TF, 'Потенциальная энергия: ', s1, 'кДж=(', s2, 'Н/м*', s3, '^2м)/2');
```

```
217: end;
218:
219: procedure TEnergyForm.InfoKClick(Sender: TObject);
220: begin
221:   MessageBox(handle, PChar('Разность между полной E системы и её E покоя. Молекулы обладают ей
     только когда движутся.'), PChar('Средняя кинетич. E движения молекул'),
222:     MB_ICONINFORMATION + MB_OK);
223: end;
224:
225: procedure TEnergyForm.InfoKineClick(Sender: TObject);
226: begin
227:   MessageBox(handle,
228:     PChar('Разность между полной E системы и её E покоя. Тело обладает ей только когда движетс
     я.'),
229:     PChar('Кинетическая энергия'), MB_ICONINFORMATION + MB_OK);
230: end;
231:
232: procedure TEnergyForm.Just2bChange(Sender: TObject);
233: begin
234:   Just2b.Text := '  2';
235: end;
236:
237: procedure TEnergyForm.Just2cChange(Sender: TObject);
238: begin
239:   Just2c.Text := '  2';
240: end;
241:
242: procedure TEnergyForm.Just2Change(Sender: TObject);
243: begin
244:   Just2.Text := '  2';
245: end;
246:
247: procedure TEnergyForm.N1Click(Sender: TObject);
248: begin
249:   Form3.Show;
250: end;
251:
252: procedure TEnergyForm.N7Click(Sender: TObject);
253: begin
254:   EnergyForm.Close;
255:   SettingsForm.Show;
256: end;
257:
258: procedure TEnergyForm.ResultKineClick(Sender: TObject);
259: begin
260:   m := StrToFloat(WeightKine.Text);
261:   vv := StrToFloat(SpeedKine.Text);
262:   Kinematics.Text := FloatToStr(((m * (vv * vv)) / 2) / 1000);
263: end;
264:
265: procedure TEnergyForm.ResultMGHClick(Sender: TObject);
266: begin
267:   m := StrToFloat(WeightMGH.Text);
268:   h := StrToFloat(Height.Text);
269:   PotentialMGH.Text := FloatToStr((m * g * h) / 1000);
270: end;
271:
272: procedure TEnergyForm.ResultPClick(Sender: TObject);
273: begin
274:   k := StrToFloat(Elongation.Text);
275:   x := StrToFloat(Hardness.Text);
276:   Potential.Text := FloatToStr(((k * (x * x)) / 2) / 1000);
277: end;
278:
279: procedure TEnergyForm.InfoPClick(Sender: TObject);
280: begin
281:   MessageBox(handle,
282:     PChar('E, которая определяется взаимным положением взаимодействующих тел или частей одного
     и того же тела.'),
283:     PChar('Потенциальная энергия'), MB_ICONINFORMATION + MB_OK);
284: end;
285:
```

```
286: procedure TEnergyForm.ScrollMouseWheel(Sender: TObject; Shift: TShiftState;
287:   WheelDelta: Integer; MousePos: TPoint; var Handled: Boolean);
288: begin
289:   Scroll.VertScrollBar.Position := Scroll.VertScrollBar.Position - WheelDelta;
290: end;
291:
292: procedure TEnergyForm.SpeedKineClick(Sender: TObject);
293: begin
294:   SpeedKine.Clear;
295: end;
296:
297: procedure TEnergyForm.WeightKineClick(Sender: TObject);
298: begin
299:   WeightKine.Clear;
300: end;
301:
302: procedure TEnergyForm.WeightKineKeyPress(Sender: TObject; var Key: Char);
303: begin
304:   if not(Key in ['0'..'9', ',', #8]) then
305:     Key:=#0
306: end;
307:
308: procedure TEnergyForm.WeightMGHClick(Sender: TObject);
309: begin
310:   WeightMGH.Clear;
311: end;
312:
313: end.
```

```
 1: unit About;
 2:
 3: interface
 4:
 5: uses WinApi.Windows, System.SysUtils, System.Classes, Vcl.Graphics,
 6:   Vcl.Forms, Vcl.Controls, Vcl.StdCtrls, Vcl.Buttons, Vcl.ExtCtrls,
 7:   Vcl.Imaging.pngimage, MMSystem, Vcl.Imaging.jpeg;
 8:
 9: type
10:   TAboutBox = class(TForm)
11:     Panel1: TPanel;
12:     ProgramIcon: TImage;
13:     ProductName: TLabel;
14:     Version: TLabel;
15:     Copyright: TLabel;
16:     Comments: TLabel;
17:     OKButton: TButton;
18:     Label1: TLabel;
19:     Image: TImage;
20:     Contact: TLabel;
21:     Label2: TLabel;
22:     procedure ProgramIconClick(Sender: TObject);
23:   private
24:     { Private declarations }
25:   public
26:     { Public declarations }
27:   end;
28:
29: var
30:   AboutBox: TAboutBox;
31:
32: implementation
33:
34: {$R *.dfm}
35:
36: procedure TAboutBox.ProgramIconClick(Sender: TObject);
37: begin
38:   PlaySound('goddamnpig.wav', 1, SND_ASYNC);
39: end;
40:
41: end.
```

```
 1: unit Unit3;
 2:
 3: interface
 4:
 5: uses
 6:   Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
 7:   Dialogs, jpeg, ExtCtrls, StdCtrls, Vcl.Buttons;
 8:
 9: type
10:   TForm3 = class(TForm)
11:     Image: TImage;
12:     Notes: TMemo;
13:     Label1: TLabel;
14:     Save: TSpeedButton;
15:     procedure FormCreate(Sender: TObject);
16:     procedure SaveClick(Sender: TObject);
17:   private
18:     { Private declarations }
19:   public
20:     { Public declarations }
21:   end;
22:
23: var
24:   Form3: TForm3;
25:   N: TextFile;
26:   i: integer;
27:
28: implementation
29:
30: {$R *.dfm}
31:
32: procedure TForm3.FormCreate(Sender: TObject);
33: begin
34: assignfile(N, 'notes.txt');
35: Notes.Lines.LoadFromFile('notes.txt');
36:   append(N);
37: end;
38:
39: procedure TForm3.SaveClick(Sender: TObject);
40: begin
41:   writeln(N);
42:   for i := 0 to Notes.Lines.Count - 1 do
43:     writeln(N, Notes.Lines[i]);
44:   closefile(N);
45: end;
46:
47: end.
```

```
 1: unit Unit4;
 2:
 3: interface
 4:
 5: uses
 6:   Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
 7:   Dialogs, jpeg, ExtCtrls, Vcl.Menus;
 8:
 9: type
10:   TSettingsForm = class(TForm)
11:     Image1: TImage;
12:     MainMenu: TMainMenu;
13:     Back: TMenuItem;
14:     N2: TMenuItem;
15:     N11: TMenuItem;
16:     procedure BackClick(Sender: TObject);
17:   private
18:     { Private declarations }
19:   public
20:     { Public declarations }
21:   end;
22:
23: var
24:   SettingsForm: TSettingsForm;
25:
26: implementation
27:
28: uses MainUnit;
29:
30: {$R *.dfm}
31:
32: procedure TSettingsForm.BackClick(Sender: TObject);
33: begin
34:   SettingsForm.Close;
35:   MainForm.Show;
36: end;
37:
38: end.
```