



1stAnswer22july.java



Saved

```
1
2 // 1st answer
3
4
5 import java.util.*;
6
7 // Compiler version JDK 11.0.2
8
9
10 class Calculator
11 {
12
13     public void add(float a, float b, float c)
14     {
15         System.out.println(a+"+"+b+"+"+c+"="+ (a+b+c));
16     }
17     public void add(float a, float b)
18     {
19         System.out.println(a+"+"+b+"="+ (a+b));
20     }
21
22
23     public void subtract(float a, float b, float c)
24     {
25         System.out.println(a+"-"+b+"-"+c+"="+ (a-b-c));
26     }
27     public void subtract(float a, float b)
28     {
29         System.out.println(a+"-"+b+"="+ (a-b));
30     }
31
32
33     public void product(float a, float b)
34     {
35         System.out.println(a+"*"+b+"="+ (a*b));
36     }
37
38
39     public void division(float a, float b)
40     {
41         System.out.println(a+"/"+b+"="+ (a/b));
42     }
43 }
44 public class Main
45 {
46     public static void main (String[] args) {
47         Calculator cal=new Calculator();
48         Scanner sc=new Scanner(System.in);
49         System.out.println("Author: P. Hemanth\nSA");
50         try
```





1stAnswer22july.java



Saved

```
42     }
43 }
44 public class Main
45 {
46     public static void main (String[] args) {
47         Calculator cal=new Calculator();
48         Scanner sc=new Scanner(System.in);
49         System.out.println("Author: P. Hemanth\nSA
50 try
51     {
52         System.out.println("1.ADDITION \n2. SU
53         int op=sc.nextInt();
54         switch(op)
55         {
56             case 0:
57                 System.out.println("Exit...");
58                 System.exit(0);
59                 break;
60             case 1:
61                 System.out.print("Enter a numb
62                 float add1=sc.nextFloat();
63                 System.out.print("Enter a numb
64                 float add2=sc.nextFloat();
65                 System.out.print("Enter anothe
66                 float add3=sc.nextFloat();
67                 if(add3==0)
68                 {
69                     cal.add(add1, add2);
70                 }
71                 else
72                 {
73                     cal.add(add1, add2, add3);
74                 }
75                 break;
76             case 2:
77                 System.out.print("Enter a numbe
78                 float sub1=sc.nextFloat();
79                 System.out.print("Enter a numb
80                 float sub2=sc.nextFloat();
81                 System.out.print("Enter a numb
82                 float sub3=sc.nextFloat();
83                 if(sub3==0)
84                 {
85                     cal.subtract(sub1, sub2);
86                 }
87                 else
88                 {
89                     cal.subtract(sub1, sub2, s
90                 }
91                 break;
92             case 3:
93                 System.out.print("Enter a numb
94                 float mul1=sc.nextFloat();
95                 System.out.print("Enter a numb
96                 float mul2=sc.nextFloat();
97                 System.out.print("Enter a numb
98                 float mul3=sc.nextFloat();
99                 if(mul3==0)
100                {
101                    cal.multiply(mul1, mul2);
102                }
103                else
104                {
105                    cal.multiply(mul1, mul2, mul3);
106                }
107                break;
108            case 4:
109                System.out.print("Enter a numb
110                float div1=sc.nextFloat();
111                System.out.print("Enter a numb
112                float div2=sc.nextFloat();
113                System.out.print("Enter a numb
114                float div3=sc.nextFloat();
115                if(div3==0)
116                {
117                    cal.divide(div1, div2);
118                }
119                else
120                {
121                    cal.divide(div1, div2, div3);
122                }
123                break;
124            case 5:
125                System.out.print("Enter a numb
126                float mod1=sc.nextFloat();
127                System.out.print("Enter a numb
128                float mod2=sc.nextFloat();
129                System.out.print("Enter a numb
130                float mod3=sc.nextFloat();
131                if(mod3==0)
132                {
133                    cal.mod(mod1, mod2);
134                }
135                else
136                {
137                    cal.mod(mod1, mod2, mod3);
138                }
139                break;
140            case 6:
141                System.out.print("Enter a numb
142                float pow1=sc.nextFloat();
143                System.out.print("Enter a numb
144                float pow2=sc.nextFloat();
145                System.out.print("Enter a numb
146                float pow3=sc.nextFloat();
147                if(pow3==0)
148                {
149                    cal.pow(pow1, pow2);
150                }
151                else
152                {
153                    cal.pow(pow1, pow2, pow3);
154                }
155                break;
156            case 7:
157                System.out.print("Enter a numb
158                float sqrt1=sc.nextFloat();
159                System.out.print("Enter a numb
160                float sqrt2=sc.nextFloat();
161                System.out.print("Enter a numb
162                float sqrt3=sc.nextFloat();
163                if(sqrt3==0)
164                {
165                    cal.sqrt(sqrt1, sqrt2);
166                }
167                else
168                {
169                    cal.sqrt(sqrt1, sqrt2, sqrt3);
170                }
171                break;
172            case 8:
173                System.out.print("Enter a numb
174                float log1=sc.nextFloat();
175                System.out.print("Enter a numb
176                float log2=sc.nextFloat();
177                System.out.print("Enter a numb
178                float log3=sc.nextFloat();
179                if(log3==0)
180                {
181                    cal.log(log1, log2);
182                }
183                else
184                {
185                    cal.log(log1, log2, log3);
186                }
187                break;
188            case 9:
189                System.out.print("Enter a numb
190                float exp1=sc.nextFloat();
191                System.out.print("Enter a numb
192                float exp2=sc.nextFloat();
193                System.out.print("Enter a numb
194                float exp3=sc.nextFloat();
195                if(exp3==0)
196                {
197                    cal.exp(exp1, exp2);
198                }
199                else
200                {
201                    cal.exp(exp1, exp2, exp3);
202                }
203                break;
204            case 10:
205                System.out.print("Enter a numb
206                float sin1=sc.nextFloat();
207                System.out.print("Enter a numb
208                float sin2=sc.nextFloat();
209                System.out.print("Enter a numb
210                float sin3=sc.nextFloat();
211                if(sin3==0)
212                {
213                    cal.sin(sin1, sin2);
214                }
215                else
216                {
217                    cal.sin(sin1, sin2, sin3);
218                }
219                break;
220            case 11:
221                System.out.print("Enter a numb
222                float cos1=sc.nextFloat();
223                System.out.print("Enter a numb
224                float cos2=sc.nextFloat();
225                System.out.print("Enter a numb
226                float cos3=sc.nextFloat();
227                if(cos3==0)
228                {
229                    cal.cos(cos1, cos2);
230                }
231                else
232                {
233                    cal.cos(cos1, cos2, cos3);
234                }
235                break;
236            case 12:
237                System.out.print("Enter a numb
238                float tan1=sc.nextFloat();
239                System.out.print("Enter a numb
240                float tan2=sc.nextFloat();
241                System.out.print("Enter a numb
242                float tan3=sc.nextFloat();
243                if(tan3==0)
244                {
245                    cal.tan(tan1, tan2);
246                }
247                else
248                {
249                    cal.tan(tan1, tan2, tan3);
250                }
251                break;
252            case 13:
253                System.out.print("Enter a numb
254                float cot1=sc.nextFloat();
255                System.out.print("Enter a numb
256                float cot2=sc.nextFloat();
257                System.out.print("Enter a numb
258                float cot3=sc.nextFloat();
259                if(cot3==0)
260                {
261                    cal.cot(cot1, cot2);
262                }
263                else
264                {
265                    cal.cot(cot1, cot2, cot3);
266                }
267                break;
268            case 14:
269                System.out.print("Enter a numb
270                float sec1=sc.nextFloat();
271                System.out.print("Enter a numb
272                float sec2=sc.nextFloat();
273                System.out.print("Enter a numb
274                float sec3=sc.nextFloat();
275                if(sec3==0)
276                {
277                    cal.sec(sec1, sec2);
278                }
279                else
280                {
281                    cal.sec(sec1, sec2, sec3);
282                }
283                break;
284            case 15:
285                System.out.print("Enter a numb
286                float csc1=sc.nextFloat();
287                System.out.print("Enter a numb
288                float csc2=sc.nextFloat();
289                System.out.print("Enter a numb
290                float csc3=sc.nextFloat();
291                if(csc3==0)
292                {
293                    cal.csc(csc1, csc2);
294                }
295                else
296                {
297                    cal.csc(csc1, csc2, csc3);
298                }
299                break;
300            case 16:
301                System.out.print("Enter a numb
302                float sinh1=sc.nextFloat();
303                System.out.print("Enter a numb
304                float sinh2=sc.nextFloat();
305                System.out.print("Enter a numb
306                float sinh3=sc.nextFloat();
307                if(sinh3==0)
308                {
309                    cal.sinh(sinh1, sinh2);
310                }
311                else
312                {
313                    cal.sinh(sinh1, sinh2, sinh3);
314                }
315                break;
316            case 17:
317                System.out.print("Enter a numb
318                float cosh1=sc.nextFloat();
319                System.out.print("Enter a numb
320                float cosh2=sc.nextFloat();
321                System.out.print("Enter a numb
322                float cosh3=sc.nextFloat();
323                if(cosh3==0)
324                {
325                    cal.cosh(cosh1, cosh2);
326                }
327                else
328                {
329                    cal.cosh(cosh1, cosh2, cosh3);
330                }
331                break;
332            case 18:
333                System.out.print("Enter a numb
334                float tanh1=sc.nextFloat();
335                System.out.print("Enter a numb
336                float tanh2=sc.nextFloat();
337                System.out.print("Enter a numb
338                float tanh3=sc.nextFloat();
339                if(tanh3==0)
340                {
341                    cal.tanh(tanh1, tanh2);
342                }
343                else
344                {
345                    cal.tanh(tanh1, tanh2, tanh3);
346                }
347                break;
348            case 19:
349                System.out.print("Enter a numb
350                float coth1=sc.nextFloat();
351                System.out.print("Enter a numb
352                float coth2=sc.nextFloat();
353                System.out.print("Enter a numb
354                float coth3=sc.nextFloat();
355                if(coth3==0)
356                {
357                    cal.coth(coth1, coth2);
358                }
359                else
360                {
361                    cal.coth(coth1, coth2, coth3);
362                }
363                break;
364            case 20:
365                System.out.print("Enter a numb
366                float sech1=sc.nextFloat();
367                System.out.print("Enter a numb
368                float sech2=sc.nextFloat();
369                System.out.print("Enter a numb
370                float sech3=sc.nextFloat();
371                if(sech3==0)
372                {
373                    cal.sech(sech1, sech2);
374                }
375                else
376                {
377                    cal.sech(sech1, sech2, sech3);
378                }
379                break;
380            case 21:
381                System.out.print("Enter a numb
382                float csch1=sc.nextFloat();
383                System.out.print("Enter a numb
384                float csch2=sc.nextFloat();
385                System.out.print("Enter a numb
386                float csch3=sc.nextFloat();
387                if(csch3==0)
388                {
389                    cal.csch(csch1, csch2);
390                }
391                else
392                {
393                    cal.csch(csch1, csch2, csch3);
394                }
395                break;
396            case 22:
397                System.out.print("Enter a numb
398                float erf1=sc.nextFloat();
399                System.out.print("Enter a numb
400                float erf2=sc.nextFloat();
401                System.out.print("Enter a numb
402                float erf3=sc.nextFloat();
403                if(erf3==0)
404                {
405                    cal.erf(erf1, erf2);
406                }
407                else
408                {
409                    cal.erf(erf1, erf2, erf3);
410                }
411                break;
412            case 23:
413                System.out.print("Enter a numb
414                float erfc1=sc.nextFloat();
415                System.out.print("Enter a numb
416                float erfc2=sc.nextFloat();
417                System.out.print("Enter a numb
418                float erfc3=sc.nextFloat();
419                if(erfc3==0)
420                {
421                    cal.erfc(erfc1, erfc2);
422                }
423                else
424                {
425                    cal.erfc(erfc1, erfc2, erfc3);
426                }
427                break;
428            case 24:
429                System.out.print("Enter a numb
430                float gamma1=sc.nextFloat();
431                System.out.print("Enter a numb
432                float gamma2=sc.nextFloat();
433                System.out.print("Enter a numb
434                float gamma3=sc.nextFloat();
435                if(gamma3==0)
436                {
437                    cal.gamma(gamma1, gamma2);
438                }
439                else
440                {
441                    cal.gamma(gamma1, gamma2, gamma3);
442                }
443                break;
444            case 25:
445                System.out.print("Enter a numb
446                float digamma1=sc.nextFloat();
447                System.out.print("Enter a numb
448                float digamma2=sc.nextFloat();
449                System.out.print("Enter a numb
450                float digamma3=sc.nextFloat();
451                if(digamma3==0)
452                {
453                    cal.digamma(digamma1, digamma2);
454                }
455                else
456                {
457                    cal.digamma(digamma1, digamma2, digamma3);
458                }
459                break;
460            case 26:
461                System.out.print("Enter a numb
462                float polygamma1=sc.nextFloat();
463                System.out.print("Enter a numb
464                float polygamma2=sc.nextFloat();
465                System.out.print("Enter a numb
466                float polygamma3=sc.nextFloat();
467                if(polygamma3==0)
468                {
469                    cal.polygamma(polygamma1, polygamma2);
470                }
471                else
472                {
473                    cal.polygamma(polygamma1, polygamma2, polygamma3);
474                }
475                break;
476            case 27:
477                System.out.print("Enter a numb
478                float zeta1=sc.nextFloat();
479                System.out.print("Enter a numb
480                float zeta2=sc.nextFloat();
481                System.out.print("Enter a numb
482                float zeta3=sc.nextFloat();
483                if(zeta3==0)
484                {
485                    cal.zeta(zeta1, zeta2);
486                }
487                else
488                {
489                    cal.zeta(zeta1, zeta2, zeta3);
490                }
491                break;
492            case 28:
493                System.out.print("Enter a numb
494                float dirichlet1=sc.nextFloat();
495                System.out.print("Enter a numb
496                float dirichlet2=sc.nextFloat();
497                System.out.print("Enter a numb
498                float dirichlet3=sc.nextFloat();
499                if(dirichlet3==0)
500                {
501                    cal.dirichlet(dirichlet1, dirichlet2);
502                }
503                else
504                {
505                    cal.dirichlet(dirichlet1, dirichlet2, dirichlet3);
506                }
507                break;
508            case 29:
509                System.out.print("Enter a numb
510                float beta1=sc.nextFloat();
511                System.out.print("Enter a numb
512                float beta2=sc.nextFloat();
513                System.out.print("Enter a numb
514                float beta3=sc.nextFloat();
515                if(beta3==0)
516                {
517                    cal.beta(beta1, beta2);
518                }
519                else
520                {
521                    cal.beta(beta1, beta2, beta3);
522                }
523                break;
524            case 30:
525                System.out.print("Enter a numb
526                float gamma211=sc.nextFloat();
527                System.out.print("Enter a numb
528                float gamma212=sc.nextFloat();
529                System.out.print("Enter a numb
530                float gamma213=sc.nextFloat();
531                if(gamma213==0)
532                {
533                    cal.gamma211(gamma211, gamma212);
534                }
535                else
536                {
537                    cal.gamma211(gamma211, gamma212, gamma213);
538                }
539                break;
540            case 31:
541                System.out.print("Enter a numb
542                float gamma221=sc.nextFloat();
543                System.out.print("Enter a numb
544                float gamma222=sc.nextFloat();
545                System.out.print("Enter a numb
546                float gamma223=sc.nextFloat();
547                if(gamma223==0)
548                {
549                    cal.gamma221(gamma221, gamma222);
550                }
551                else
552                {
553                    cal.gamma221(gamma221, gamma222, gamma223);
554                }
555                break;
556            case 32:
557                System.out.print("Enter a numb
558                float gamma231=sc.nextFloat();
559                System.out.print("Enter a numb
560                float gamma232=sc.nextFloat();
561                System.out.print("Enter a numb
562                float gamma233=sc.nextFloat();
563                if(gamma233==0)
564                {
565                    cal.gamma231(gamma231, gamma232);
566                }
567                else
568                {
569                    cal.gamma231(gamma231, gamma232, gamma233);
570                }
571                break;
572            case 33:
573                System.out.print("Enter a numb
574                float gamma241=sc.nextFloat();
575                System.out.print("Enter a numb
576                float gamma242=sc.nextFloat();
577                System.out.print("Enter a numb
578                float gamma243=sc.nextFloat();
579                if(gamma243==0)
580                {
581                    cal.gamma241(gamma241, gamma242);
582                }
583                else
584                {
585                    cal.gamma241(gamma241, gamma242, gamma243);
586                }
587                break;
588            case 34:
589                System.out.print("Enter a numb
590                float gamma251=sc.nextFloat();
591                System.out.print("Enter a numb
592                float gamma252=sc.nextFloat();
593                System.out.print("Enter a numb
594                float gamma253=sc.nextFloat();
595                if(gamma253==0)
596                {
597                    cal.gamma251(gamma251, gamma252);
598                }
599                else
600                {
601                    cal.gamma251(gamma251, gamma252, gamma253);
602                }
603                break;
604            case 35:
605                System.out.print("Enter a numb
606                float gamma261=sc.nextFloat();
607                System.out.print("Enter a numb
608                float gamma262=sc.nextFloat();
609                System.out.print("Enter a numb
610                float gamma263=sc.nextFloat();
611                if(gamma263==0)
612                {
613                    cal.gamma261(gamma261, gamma262);
614                }
615                else
616                {
617                    cal.gamma261(gamma261, gamma262, gamma263);
618                }
619                break;
620            case 36:
621                System.out.print("Enter a numb
622                float gamma271=sc.nextFloat();
623                System.out.print("Enter a numb
624                float gamma272=sc.nextFloat();
625                System.out.print("Enter a numb
626                float gamma273=sc.nextFloat();
627                if(gamma273==0)
628                {
629                    cal.gamma271(gamma271, gamma272);
630                }
631                else
632                {
633                    cal.gamma271(gamma271, gamma272, gamma273);
634                }
635                break;
636            case 37:
637                System.out.print("Enter a numb
638                float gamma281=sc.nextFloat();
639                System.out.print("Enter a numb
640                float gamma282=sc.nextFloat();
641                System.out.print("Enter a numb
642                float gamma283=sc.nextFloat();
643                if(gamma283==0)
644                {
645                    cal.gamma281(gamma281, gamma282);
646                }
647                else
648                {
649                    cal.gamma281(gamma281, gamma282, gamma283);
650                }
651                break;
652            case 38:
653                System.out.print("Enter a numb
654                float gamma291=sc.nextFloat();
655                System.out.print("Enter a numb
656                float gamma292=sc.nextFloat();
657                System.out.print("Enter a numb
658                float gamma293=sc.nextFloat();
659                if(gamma293==0)
660                {
661                    cal.gamma291(gamma291, gamma292);
662                }
663                else
664                {
665                    cal.gamma291(gamma291, gamma292, gamma293);
666                }
667                break;
668            case 39:
669                System.out.print("Enter a numb
670                float gamma301=sc.nextFloat();
671                System.out.print("Enter a numb
672                float gamma302=sc.nextFloat();
673                System.out.print("Enter a numb
674                float gamma303=sc.nextFloat();
675                if(gamma303==0)
676                {
677                    cal.gamma301(gamma301, gamma302);
678                }
679                else
680                {
681                    cal.gamma301(gamma301, gamma302, gamma303);
682                }
683                break;
684            case 40:
685                System.out.print("Enter a numb
686                float gamma311=sc.nextFloat();
687                System.out.print("Enter a numb
688                float gamma312=sc.nextFloat();
689                System.out.print("Enter a numb
690                float gamma313=sc.nextFloat();
691                if(gamma313==0)
692                {
693                    cal.gamma311(gamma311, gamma312);
694                }
695                else
696                {
697                    cal.gamma311(gamma311, gamma312, gamma313);
698                }
699                break;
700            case 41:
701                System.out.print("Enter a numb
702                float gamma321=sc.nextFloat();
703                System.out.print("Enter a numb
704                float gamma322=sc.nextFloat();
705                System.out.print("Enter a numb
706                float gamma323=sc.nextFloat();
707                if(gamma323==0)
708                {
709                    cal.gamma321(gamma321, gamma322);
710                }
711                else
712                {
713                    cal.gamma321(gamma321, gamma322, gamma323);
714                }
715                break;
716            case 42:
717                System.out.print("Enter a numb
718                float gamma331=sc.nextFloat();
719                System.out.print("Enter a numb
720                float gamma332=sc.nextFloat();
721                System.out.print("Enter a numb
722                float gamma333=sc.nextFloat();
723                if(gamma333==0)
724                {
725                    cal.gamma331(gamma331, gamma332);
726                }
727                else
728                {
729                    cal.gamma331(gamma331, gamma332, gamma333);
730                }
731                break;
732            case 43:
733                System.out.print("Enter a numb
734                float gamma341=sc.nextFloat();
735                System.out.print("Enter a numb
736                float gamma342=sc.nextFloat();
737                System.out.print("Enter a numb
738                float gamma343=sc.nextFloat();
739                if(gamma343==0)
740                {
741                    cal.gamma341(gamma341, gamma342);
742                }
743                else
744                {
745                    cal.gamma341(gamma341, gamma342, gamma343);
746                }
747                break;
748            case 44:
749                System.out.print("Enter a numb
750                float gamma351=sc.nextFloat();
751                System.out.print("Enter a numb
752                float gamma352=sc.nextFloat();
753                System.out.print("Enter a numb
754                float gamma353=sc.nextFloat();
755                if(gamma353==0)
756                {
757                    cal.gamma351(gamma351, gamma352);
758                }
759                else
760                {
761                    cal.gamma351(gamma351, gamma352, gamma353);
762                }
763                break;
764            case 45:
765                System.out.print("Enter a numb
766                float gamma361=sc.nextFloat();
767                System.out.print("Enter a numb
768                float gamma362=sc.nextFloat();
769                System.out.print("Enter a numb
770                float gamma363=sc.nextFloat();
771                if(gamma363==0)
772                {
773                    cal.gamma361(gamma361, gamma362);
774                }
775                else
776                {
777                    cal.gamma361(gamma361, gamma362, gamma363);
778                }
779                break;
780            case 46:
781                System.out.print("Enter a numb
782                float gamma371=sc.nextFloat();
783                System.out.print("Enter a numb
784                float gamma372=sc.nextFloat();
785                System.out.print("Enter a numb
786                float gamma373=sc.nextFloat();
787                if(gamma373==0)
788                {
789                    cal.gamma371(gamma371, gamma372);
790                }
791                else
792                {
793                    cal.gamma371(gamma371, gamma372, gamma373);
794                }
795                break;
796            case 47:
797                System.out.print("Enter a numb
798                float gamma381=sc.nextFloat();
799                System.out.print("Enter a numb
800                float gamma382=sc.nextFloat();
801                System.out.print("Enter a numb
802                float gamma383=sc.nextFloat();
803                if(gamma383==0)
804                {
805                    cal.gamma381(gamma381, gamma382);
806                }
807                else
808                {
809                    cal.gamma381(gamma381, gamma382, gamma383);
810                }
811                break;
812            case 48:
813                System.out.print("Enter a numb
814                float gamma391=sc.nextFloat();
815                System.out.print("Enter a numb
816                float gamma392=sc.nextFloat();
817                System.out.print("Enter a numb
818                float gamma393=sc.nextFloat();
819                if(gamma393==0)
820                {
821                    cal.gamma391(gamma391, gamma392);
822                }
823                else
824                {
825                    cal.gamma391(gamma391, gamma392, gamma393);
826                }
827                break;
828            case 49:
829                System.out.print("Enter a numb
830                float gamma401=sc.nextFloat();
831                System.out.print("Enter a numb
832                float gamma402=sc.nextFloat();
833                System.out.print("Enter a numb
834                float gamma403=sc.nextFloat();
835                if(gamma403==0)
836                {
837                    cal.gamma401(gamma401, gamma402);
838                }
839                else
840                {
841                    cal.gamma401(gamma401, gamma402, gamma403);
842                }
843                break;
844            case 50:
845                System.out.print("Enter a numb
846                float gamma411=sc.nextFloat();
847                System.out.print("Enter a numb
848                float gamma412=sc.nextFloat();
849                System.out.print("Enter a numb
850                float gamma413=sc.nextFloat();
851                if(gamma413==0)
852                {
853                    cal.gamma411(gamma411, gamma412);
854                }
855                else
856                {
857                    cal.gamma411(gamma411, gamma412, gamma413);
858                }
859                break;
860            case 51:
861                System.out.print("Enter a numb
862                float gamma421=sc.nextFloat();
863                System.out.print("Enter a numb
864                float gamma422=sc.nextFloat();
865                System.out.print("Enter a numb
866                float gamma423=sc.nextFloat();
867                if(gamma423==0)
868                {
869                    cal.gamma421(gamma421, gamma422);
870                }
871                else
872                {
873                    cal.gamma421(gamma421, gamma422, gamma423);
874                }
875                break;
876            case 52:
877                System.out.print("Enter a numb
878                float gamma431=sc.nextFloat();
879                System.out.print("Enter a numb
880                float gamma432=sc.nextFloat();
881                System.out.print("Enter a numb
882                float gamma433=sc.nextFloat();
883                if(gamma433==0)
884                {
885                    cal.gamma431(gamma431, gamma432);
886                }
887                else
888                {
889                    cal.gamma431(gamma431, gamma432, gamma433);
890                }
891                break;
892            case 53:
893                System.out.print("Enter a numb
894                float gamma441=sc.nextFloat();
895                System.out.print("Enter a numb
896                float gamma442=sc.nextFloat();
897                System.out.print("Enter a numb
898                float gamma443=sc.nextFloat();
899                if(gamma443==0)
900                {
901                    cal.gamma441(gamma441, gamma442);
902                }
903                else
904                {
905                    cal.gamma441(gamma441, gamma442, gamma443);
906                }
907                break;
908            case 54:
909                System.out.print("Enter a numb
910                float gamma451=sc.nextFloat();
911                System.out.print("Enter a numb
912                float gamma452=sc.nextFloat();
913                System.out.print("Enter a numb
914                float gamma453=sc.nextFloat();
915                if(gamma453==0)
916                {
917                    cal.gamma451(gamma451, gamma452);
918                }
919                else
920                {
921                    cal.gamma451(gamma451, gamma452, gamma453);
922                }
923                break;
924            case 55:
925                System.out.print("Enter a numb
926                float gamma461=sc.nextFloat();
927                System.out.print("Enter a numb
928                float gamma462=sc.nextFloat();
929                System.out.print("Enter a numb
930                float gamma463=sc.nextFloat();
931                if(gamma463==0)
932                {
933                    cal.gamma461(gamma461, gamma462);
934                }
935                else
936                {
937                    cal.gamma461(gamma461, gamma462, gamma463);
938                }
939                break;
940            case 56:
941                System.out.print("Enter a numb
942                float gamma471=sc.nextFloat();
943                System.out.print("Enter a numb
944                float gamma472=sc.nextFloat();
945                System.out.print("Enter a numb
946                float gamma473=sc.nextFloat();
947                if(gamma473==0)
948                {
949                    cal.gamma471(gamma471, gamma472);
950                }
951                else
952                {
953                    cal.gamma471(gamma471, gamma472, gamma473);
954                }
955                break;
956            case 57:
957                System.out.print("Enter a numb
958                float gamma481=sc.nextFloat();
959                System.out.print("Enter a numb
960                float gamma482=sc.nextFloat();
961                System.out.print("Enter a numb
962                float gamma483=sc.nextFloat();
963                if(gamma483==0)
964                {
965                    cal.gamma481(gamma481, gamma482);
966                }
967                else
968                {
969                    cal.gamma481(gamma481, gamma482, gamma483);
970                }
971                break;
972            case 58:
973                System.out.print("Enter a numb
974                float gamma491=sc.nextFloat();
975                System.out.print("Enter a numb
976                float gamma492=sc.nextFloat();
977                System.out.print("Enter a numb
978                float gamma493=sc.nextFloat();
979                if(gamma493==0)
980                {
981                    cal.gamma491(gamma491, gamma492);
982                }
983                else
984                {
985                    cal.gamma491(gamma491, gamma492, gamma493);
986                }
987                break;
988            case 59:
989                System.out.print("Enter a numb
990                float gamma501=sc.nextFloat();
991                System.out.print("Enter a numb
992                float gamma502=sc.nextFloat();
993                System.out.print("Enter a numb
994                float gamma503=sc.nextFloat();
995                if(gamma503==0)
996                {
997                    cal.gamma501(gamma501, gamma502);
998                }
999                else
1000               
```





1stAnswer22july.java



Saved

```
75         break;
76     case 2:
77         System.out.print("Enter a number: ");
78         float sub1=sc.nextFloat();
79         System.out.print("Enter a number: ");
80         float sub2=sc.nextFloat();
81         System.out.print("Enter a number: ");
82         float sub3=sc.nextFloat();
83         if(sub3==0)
84         {
85             cal.subtract(sub1, sub2);
86         }
87         else
88         {
89             cal.subtract(sub1, sub2, sub3);
90         }
91         break;
92     case 3:
93         System.out.print("Enter a number: ");
94         float mul1=sc.nextFloat();
95         System.out.print("Enter a number: ");
96         float mul2=sc.nextFloat();
97         cal.product(mul1,mul2);
98         break;
99     case 4:
100        System.out.print("Enter a number: ");
101        float div1=sc.nextFloat();
102        System.out.print("Enter a number: ");
103        float div2=sc.nextFloat();
104        if(div2==0)
105        {
106            throw new ArithmeticException("Divisor cannot be zero.");
107        }
108        cal.division(div1,div2);
109        break;
110    default:
111        System.out.println("Invalid choice");
112    }
113 }
114 catch(InputMismatchException ime)
115 {
116     System.out.println("Enter only the integer values");
117 }
118 catch(ArithmeticException ae)
119 {
120     System.out.println(ae.getMessage());
121 }
122 }
123 }
```



× Terminal



Author: P. Hemanth

SAP ID:51834553

1.ADDITION

2. SUBTRACTION

3. MULTIPLICATION

4. DIVISION

5. EXIT

Enter your choice:

1

Enter a number: 63

Enter a number: 82

Enter another number if you want or enter 0: 3

63.0+82.0+3.0=148.0

Process finished.

|



2ndAnswer22july.java



Saved

```
1
2 //2nd answer
3
4 import java.util.*;
5
6 // Compiler version JDK 11.0.2
7
8 public class Palindrome
9 {
10     public static boolean isPalindrome(String str, int low, int high)
11     {
12         if (low >= high) {
13             return true;
14         }
15
16         if (str.charAt(low) != str.charAt(high)) {
17             return false;
18         }
19
20         return isPalindrome(str, low + 1, high - 1);
21     }
22
23     public static void main(String args[])
24     {
25         Scanner sc=new Scanner(System.in);
26         System.out.println("Author:P.Hemanth\nSAP ID:");
27         System.out.println("-----");
28         System.out.println("enter the string:");
29         String str=sc.nextLine();
30
31         if (isPalindrome(str, 0, str.length() - 1)) {
32
33             System.out.print(str+" is Palindrome");
34         } else {
35             System.out.print(str+" is Not Palindrome");
36         }
37     }
38 }
```



× Terminal



Author:P.Hemanth

SAP ID:51834553

enter the string:

hemu

hemu is Not Palindrome

Process finished.





3rdAnswer22july.java



Saved



```
1
2 // 3rd answer
3
4 import java.util.*;
5
6 // Compiler version JDK 11.0.2
7
8 public class Odd
9 {
10     public static void main (String[] args)
11     {
12         System.out.println("Author :P.Hemanth\n SAP ID:");
13         System.out.println("-----");
14         int count=0;
15         int rem=0 ;
16         Scanner sc=new Scanner(System.in);
17         System.out.println("enter a number :");
18         int n= sc.nextInt();
19         while(n>0)
20         {
21             rem=n%10;
22             if(rem%2!=0)
23             {
24                 count++;
25             }
26             n=n/10;
27         }
28         System.out.println("no of odd numbers are: "+count);
29     }
30 }
31
32 }
```



× Terminal



```
Author :P.Hemanth  
SAP ID:51834553
```

```
-----
```

```
enter a number :  
527263  
no of odd numbers are: 3
```

```
Process finished.
```




5thAnswer22july.java



Saved

```
2
3 // 5th answer
4
5
6 import java.util.*;
7 import java.util.Arrays;
8
9 // Compiler version JDK 11.0.2
10
11
12 class BinarySearch
13 {
14     public static void swap(int[] arr, int a, int b)
15     {
16         int temp = arr[a];
17         arr[a] = arr[b];
18         arr[b] = temp;
19     }
20
21     public static void bubbleSort(int[] arr, int m)
22     {
23         for (int a = 0; a < m - 1; a++) {
24             if (arr[a] > arr[a + 1]) {
25                 swap(arr, a, a + 1);
26             }
27         }
28         if (m - 1 > 1) {
29             bubbleSort(arr, m - 1);
30         }
31     }
32
33     public static void main(String[] args)
34     {
35         Scanner sc=new Scanner(System.in);
36         System.out.println("Author:P.Hemanth\n SAP I
37         System.out.println("-----");
38         System.out.println("enter the size of the
39         int size=sc.nextInt();
40         int arr[]=new int[size];
41         System.out.println("enter "+size+" element
42         for(int i=0;i<size;i++)
43         {
44             arr[i]=sc.nextInt();
45         }
46
47
48         bubbleSort(arr, arr.length);
49
50         System.out.println("numbers in the array aft
51         System.out.println(Arrays.toString(arr));
52     }
```



× Terminal



Author:P.Hemanth

SAP ID:51834553

enter the size of the array:

3

enter 3 elements:

63

82

82

numbers in the array after rearranging:

[63, 82, 82]

Process finished.

