

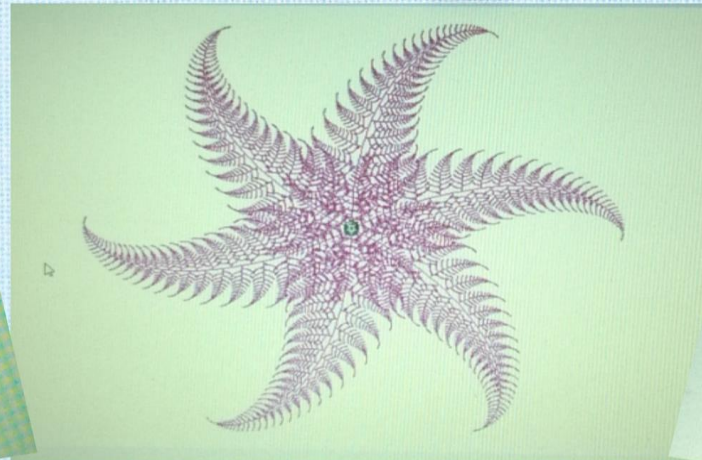


ЕВРОПЕЙСКИ СЪЮЗ
ЕВРОПЕЙСКИ СТРУКТУРНИ И
ИНВЕСТИЦИОННИ ФОНДОВЕ



ОПЕРАТИВНА ПРОГРАМА
НАУКА И ОБРАЗОВАНИЕ ЗА
ИНТЕЛИГЕНТЕН РАСТЕЖ

Игри с параметри



Средно училище "Иван Вазов"
гр. Стара Загора ул. "Ген. Гурко" 102

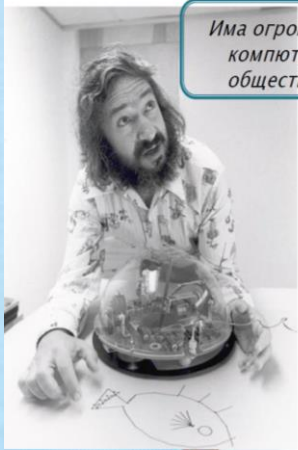


Клуб
"Приложна математика"



Вдъхновението дойде от Жени Сендова ☺ Успя да ни запали по философията на LOGO и софтуера към нея. Разбрахме кой е Сиймър Пепърт.

Кой е Пепърт?



Има огромна разлика между това, което компютрите могат, и това, което обществото избира да прави с тях...

Сиймър Пепърт

За мисленето

You can't think about thinking without thinking about thinking about something...



When we observe a work of art or a certain phenomenon and decide what is essential, and what - negligible, and then *dress* these ideas in a computer model, we do not just learn about things, we learn to think about things, then we learn to think about thinking itself



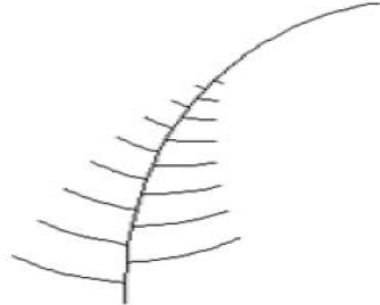
Костенурковата геометрия



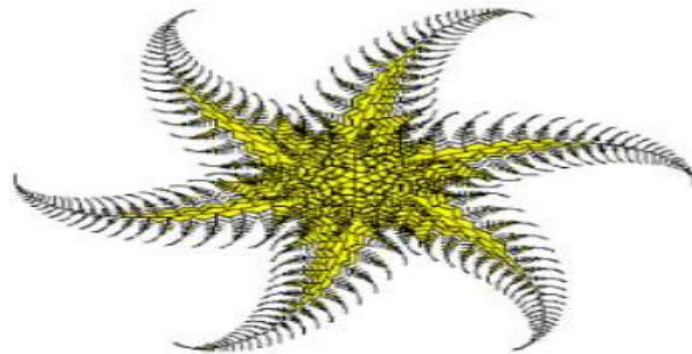
И започнахме напред и надясно ...

Геометрия на НАПРЕД и НАДЯСНО

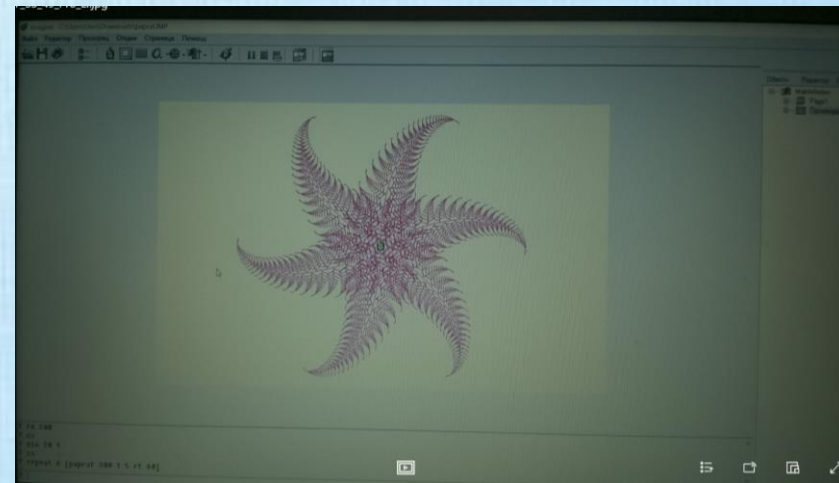
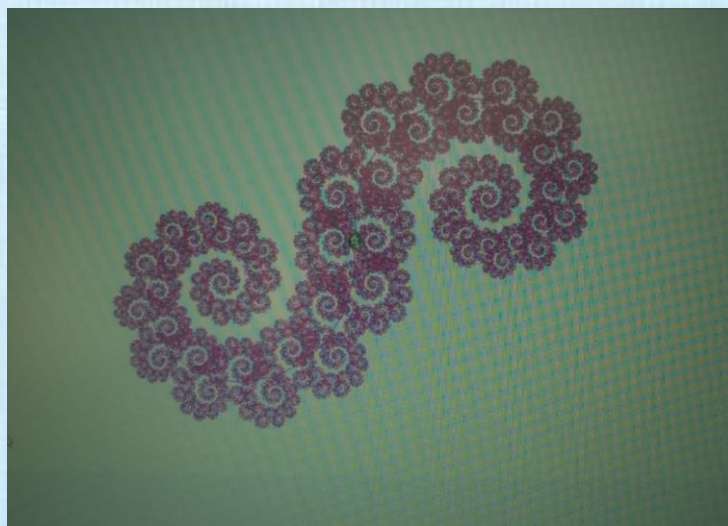
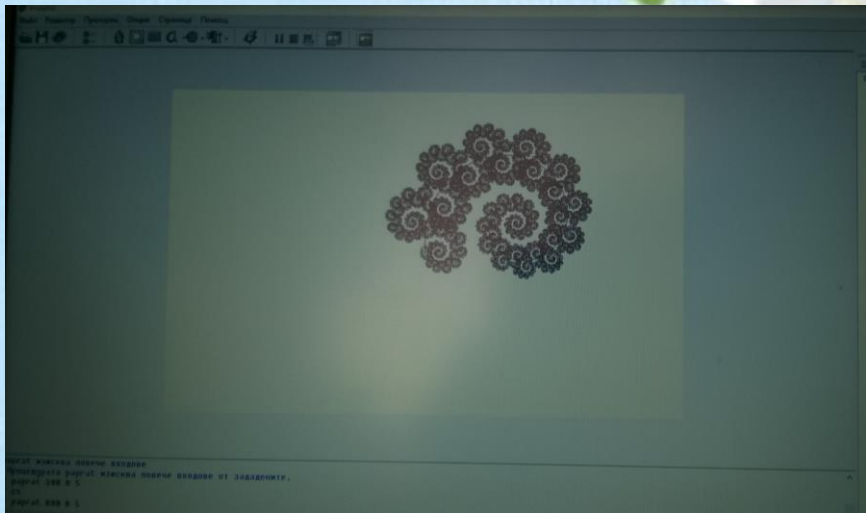
Р1: р: 2. ПАПРАТ
 Рb: *2. ОВЯЛАН
 Р50: 0* s: . ДАВАН
 Р1: р: 2. ОВЯЛАН
 Рb: *2. ОВЯЛАН
 Р50: 0* s: . ДАВАН
 Р1: р: 6.0* s: . ТАПРАТ
 Рb: *87. ОВЯЛАН
 Р1: . (р: -) . 3.0* s: . ТАПРАТ
 Рb: *08. ОНДЯЛАН
 Р50: 0* s: . ДЯПАН
 Рb: *28. ОНДЯЛАН
 Р1: р: 3.0* s: . ПАПРАТ
 Рb: *08. ОВЯЛАН
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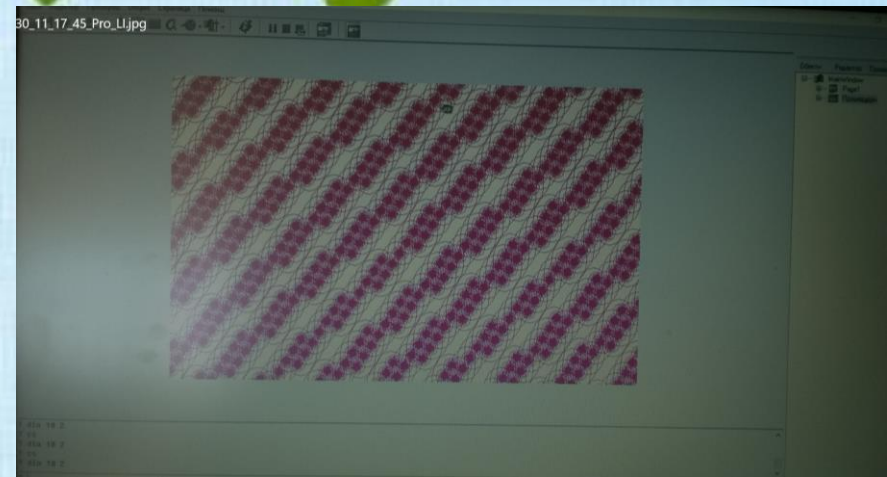


ПАПРАТ · 300 · 1 · 40 · ПАПРАТ · 300 · 1 · 15 · ПАПРАТ · 300 · 1 · 50

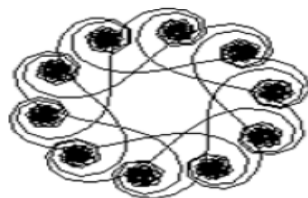


Нашите интерпретации 😊





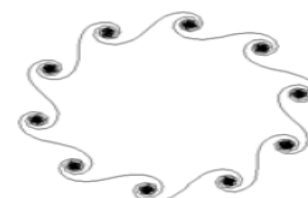
ЗА КАКВО : РАЗМЕР :ЪГЪЛ
 НАПРЕД : РАЗМЕР
 НАДЯСНО :ЪГЪЛ
 КАКВО : РАЗМЕР :ЪГЪЛ+1
 КРАЙ



КАКВО 10 1

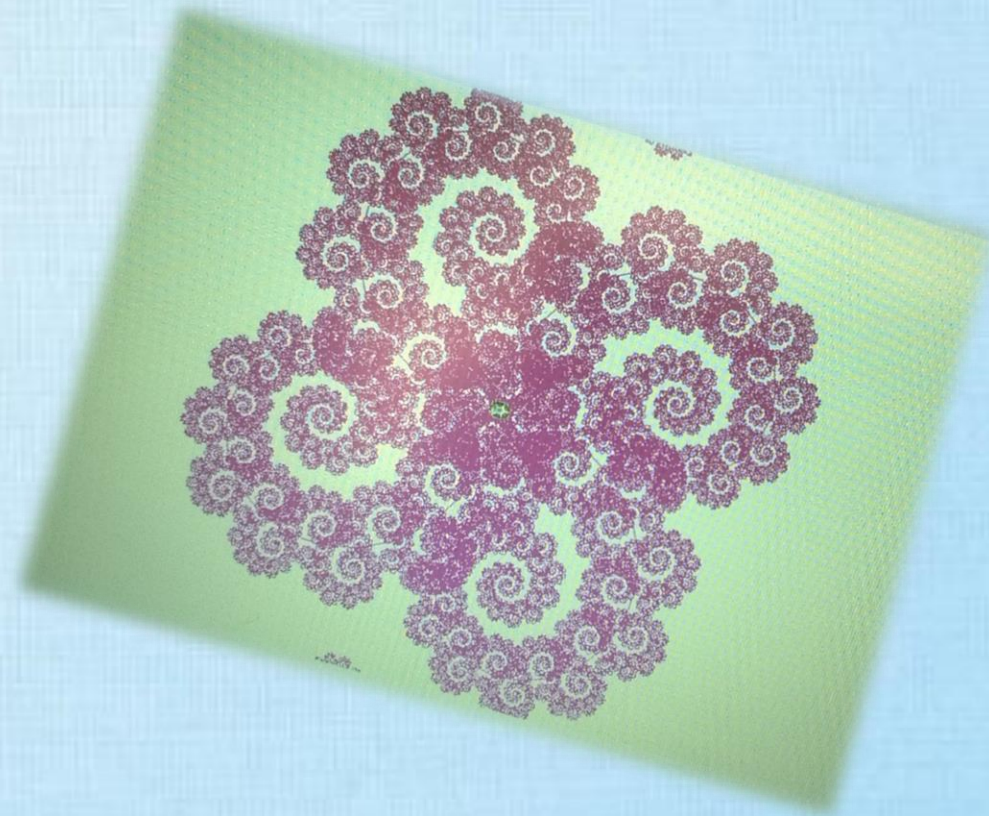
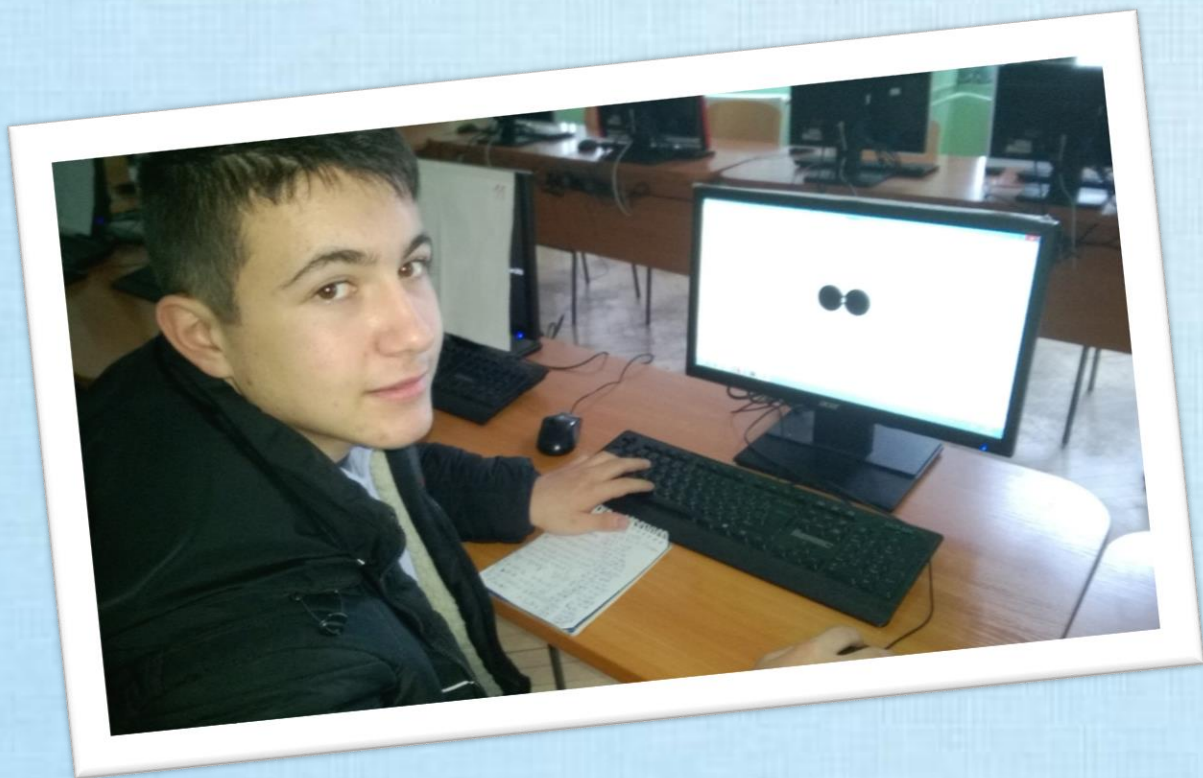


КАКВО 10 5

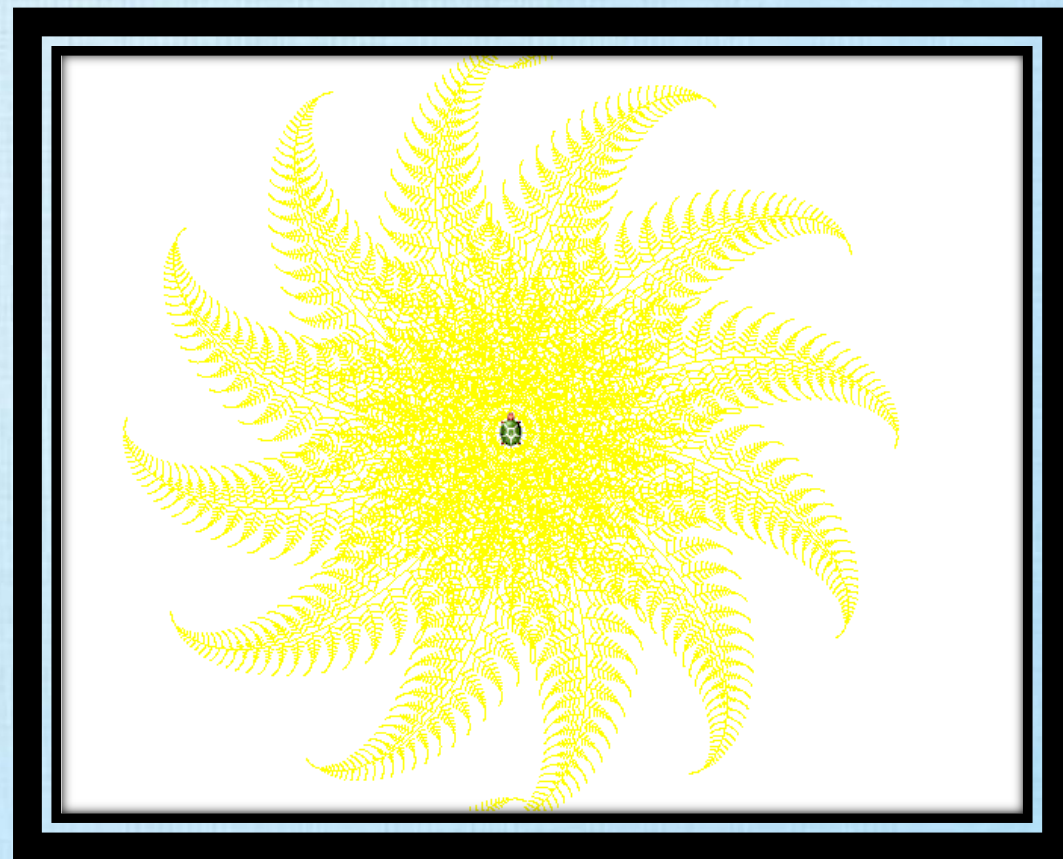


КАКВО 10 2

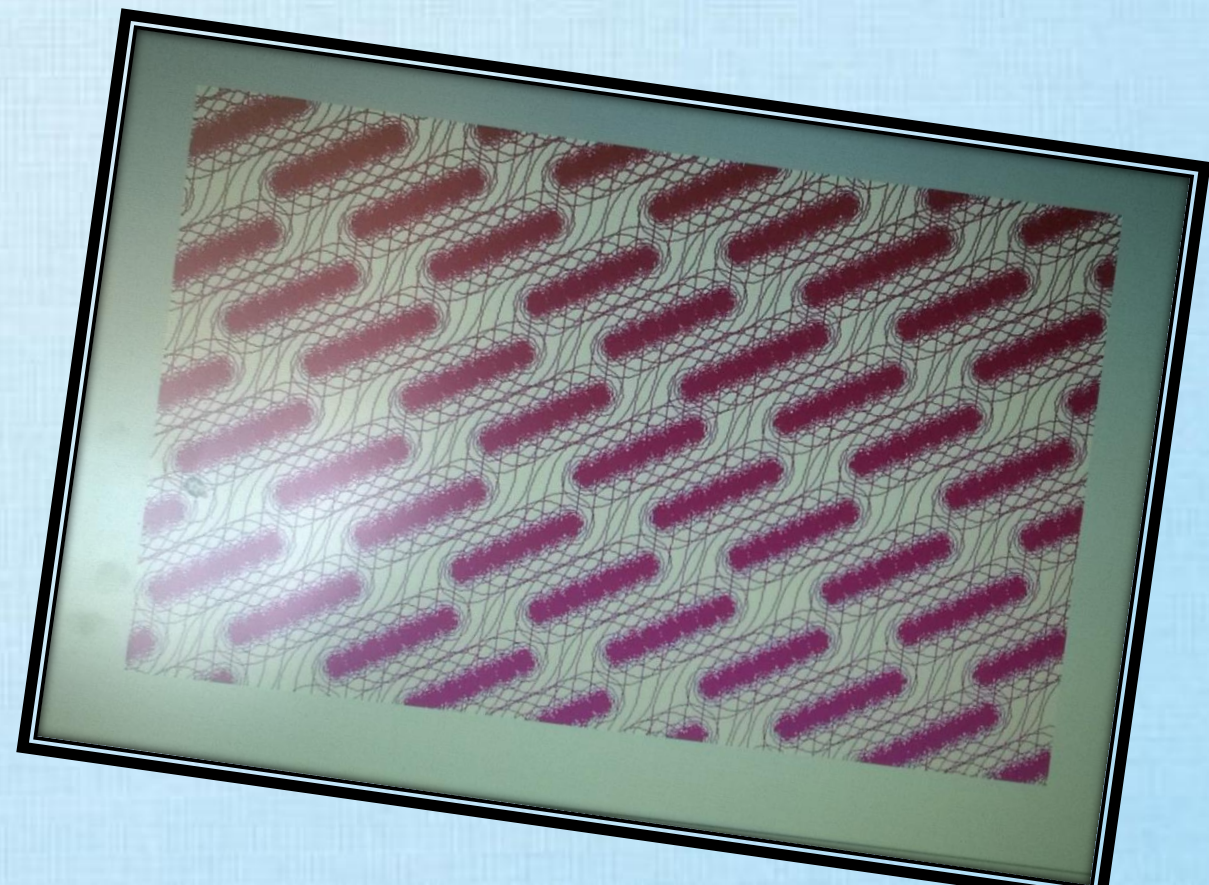
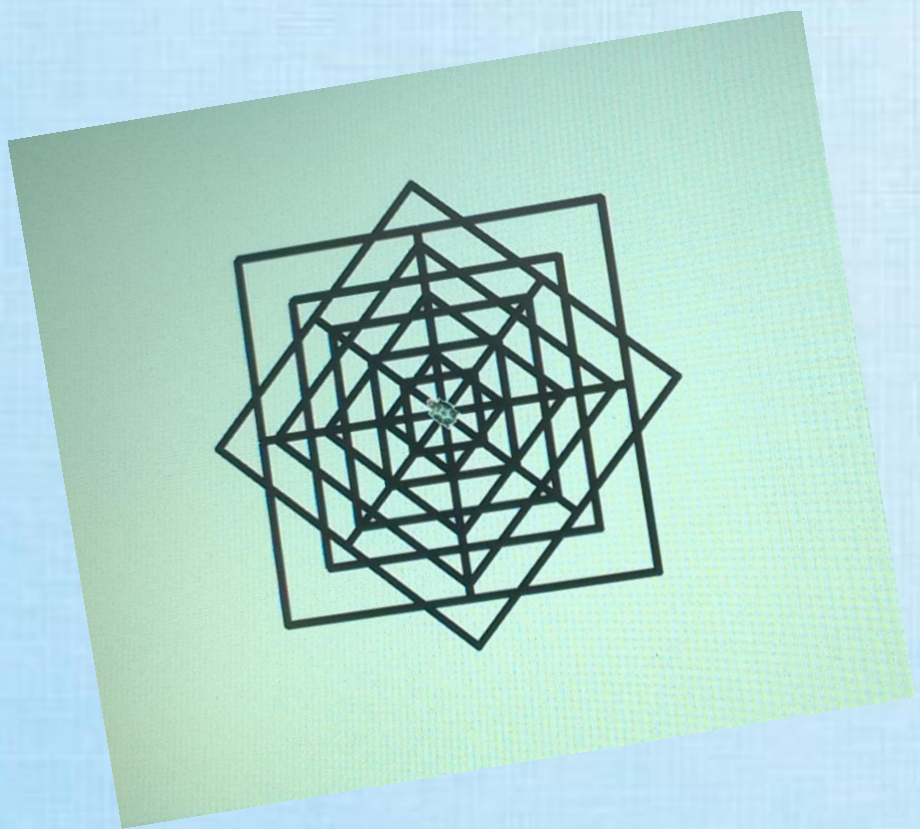
Моменти от нашата работа 😊



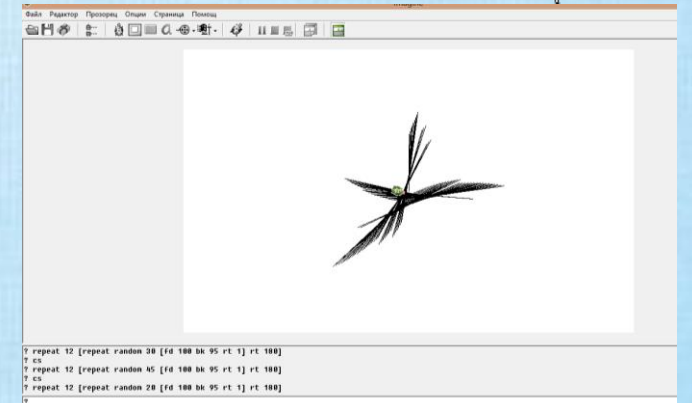
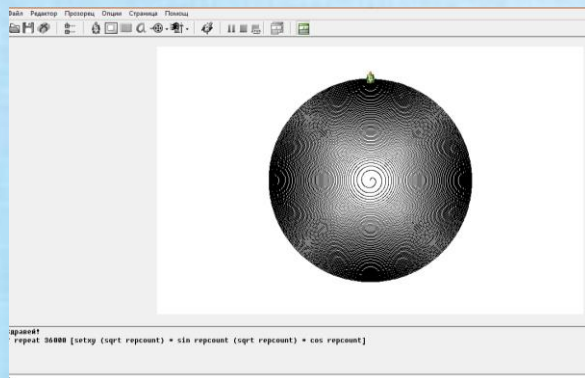
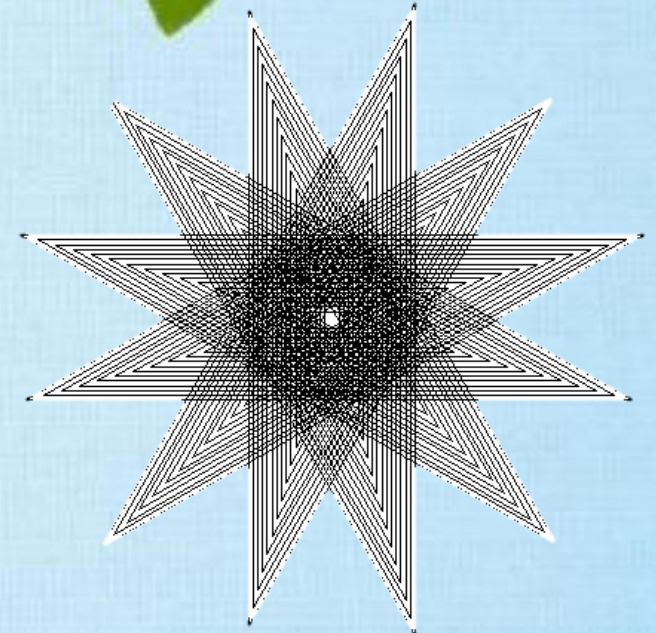
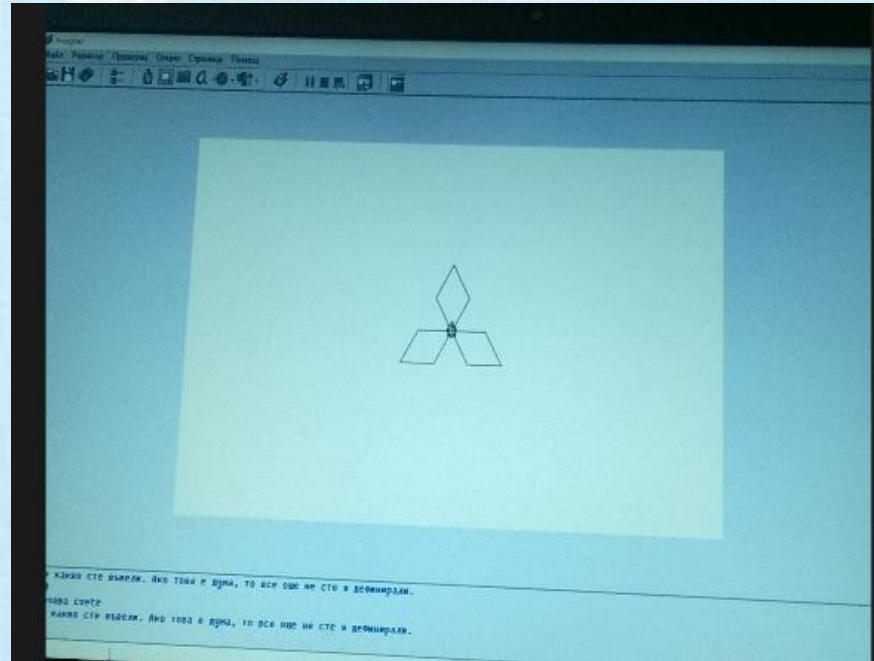
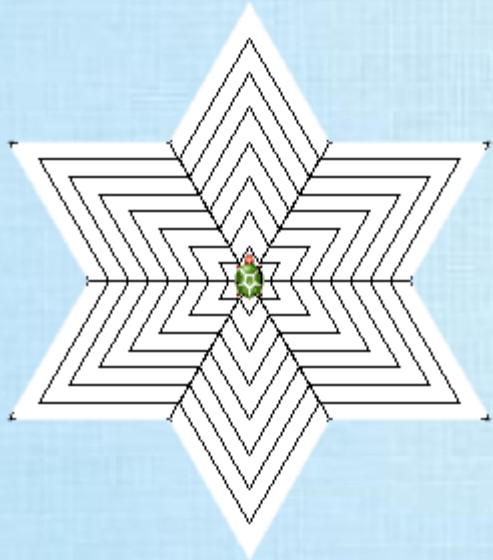
Моменти от нашата работа 😊



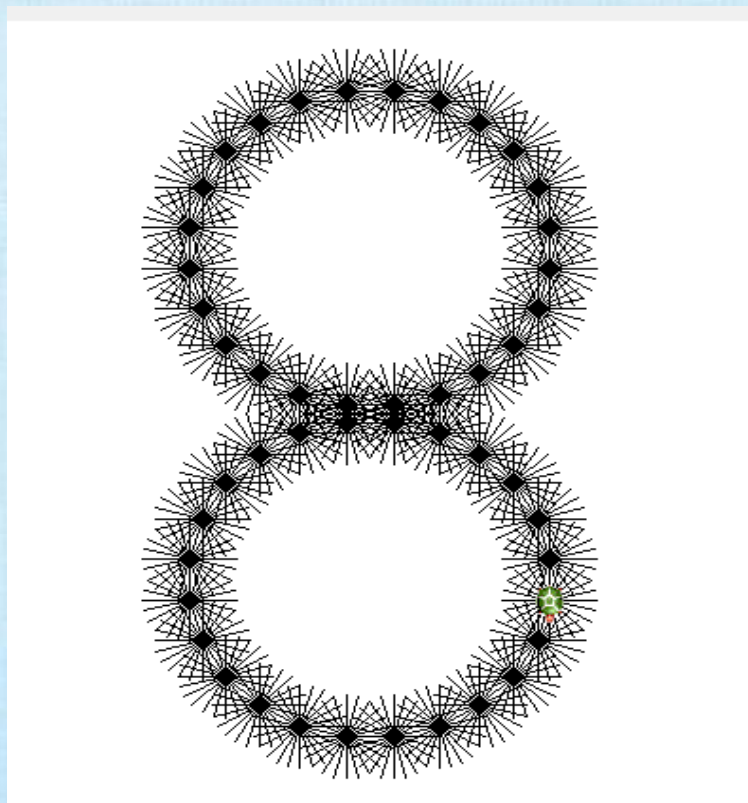
Моменти от нашата работа 😊



Моменти от нашата работа 😊



Моменти от нашата работа 😊



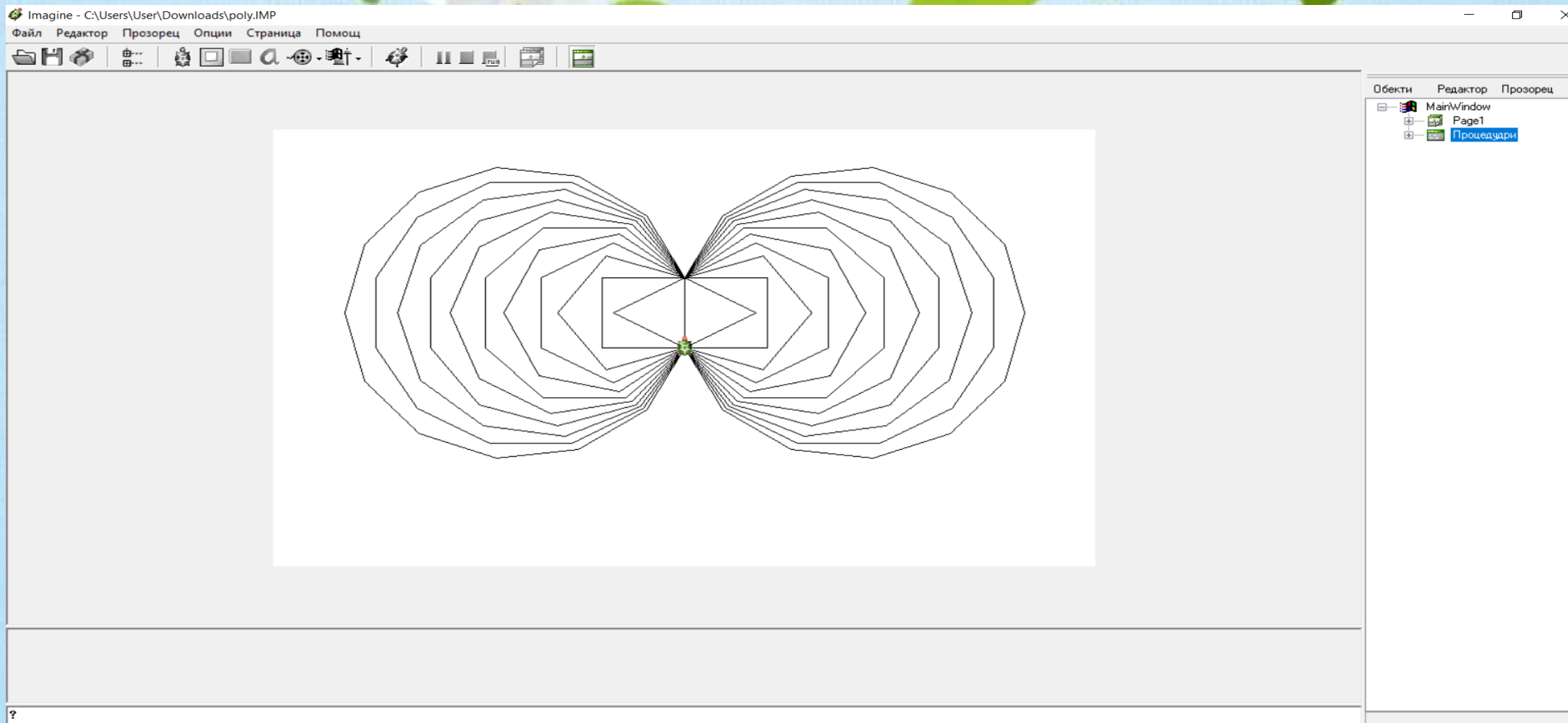
Процедури, симетрия и елементи от шевици.

The screenshot shows the Imagine software interface with the following components:

- Title Bar:** Imagine - C:\Users\User\Downloads\d1.IMP
- Menu Bar:** Файл Редактор Прозорец Опции Страница Помощ
- Toolbar:** Contains various drawing and editing tools.
- Object Panel (Обекти):** Lists MainWindow, Page1, and Процедури.
- Canvas:** Displays three fractal patterns:
 - Left: A fractal with red and green colors on a white background.
 - Middle: A white fractal on a black background.
 - Right: A black fractal on a white background.
- Command Line:** Shows the following commands:

```
? lt 180  
? rad 3 5  
? rad 3 5  
? lt 180  
? rad 3 5  
?
```
- Taskbar:** Shows the Windows taskbar with icons for Start, Search, File Explorer, Mail, Chrome, Word, PowerPoint, and the Imagine application. The system tray shows the date and time: 21:26 17.4.2018 г.

Процедури и симетрия.



Imagine

```

? repeat 1800 [fd 15 rt repeat + .0.5]
Какво означава -.0.5
Проверете какво сте въвели. Ако това е думя, то все още не сте я децимирали.
? cs
? repeat 1800 [fd 15 rt repeat + .1]
?
  
```

22:23 17.4.2018 г.

Imagine

```

? repeat 1800 [fd 15 rt repeat + .1]
? cs
? repeat 8 [rt 45 repeat 6 [repeat 90 [fd 2 rt 2] rt 90]]
? cs
? repeat 8 [rt 45 repeat 4 [repeat 90 [fd 2 rt 2] rt 90]]
?
  
```

22:24 17.4.2018 г.

Imagine

```

? repeat 8 [rt 45 repeat 20 [repeat 90 [fd 2 rt 2] rt 90]]
? cs
? repeat 8 [rt 45 repeat 500 [repeat 90 [fd 2 rt 2] rt 90]]
? cs
? repeat 8 [rt 45 repeat 500 [repeat 45 [fd 2 rt 2] rt 90]]
?
  
```

22:28 17.4.2018 г.

Imagine - C:\Users\User\AppData\Local\Temp\Мария Стоикова logo.MP

```

?
  
```

33:02 17.4.2018 г.

Imagine

```

? repeat 8 [rt 45 repeat 50 [repeat 90 [fd 2 rt 2] rt 90]]
? cs
? repeat 8 [rt 45 repeat 90 [repeat 45 [fd 2 rt 2] rt 90]]
? cs
? repeat 8 [rt 45 repeat 90 [repeat 100 [fd 2 rt 2] rt 90]]
?
  
```

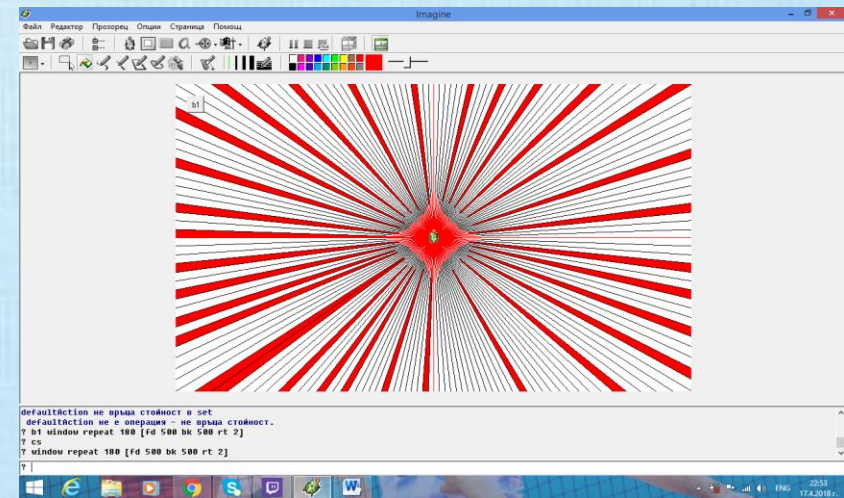
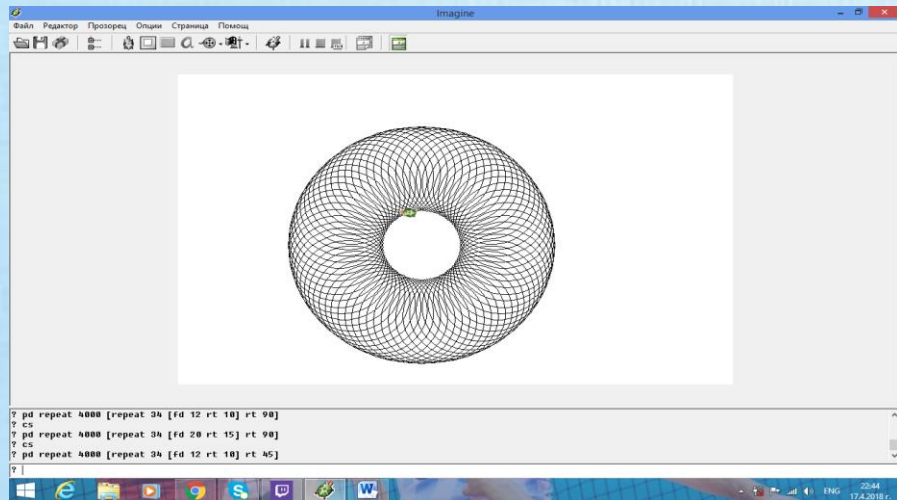
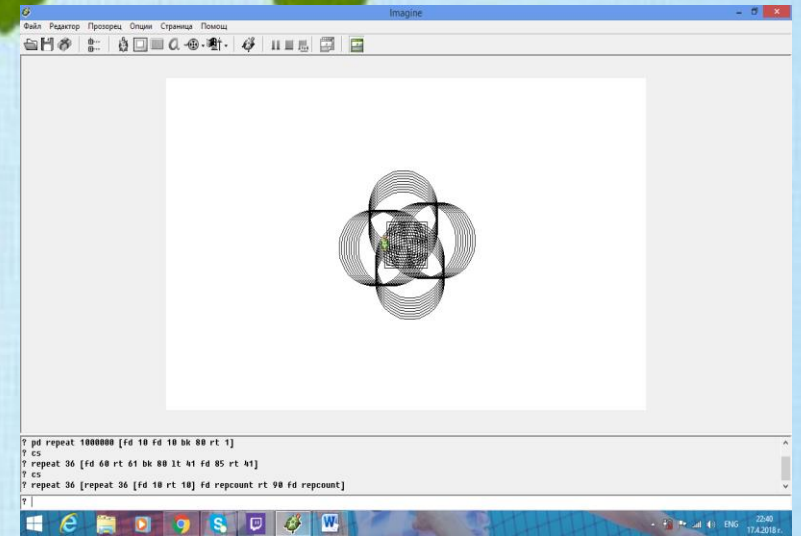
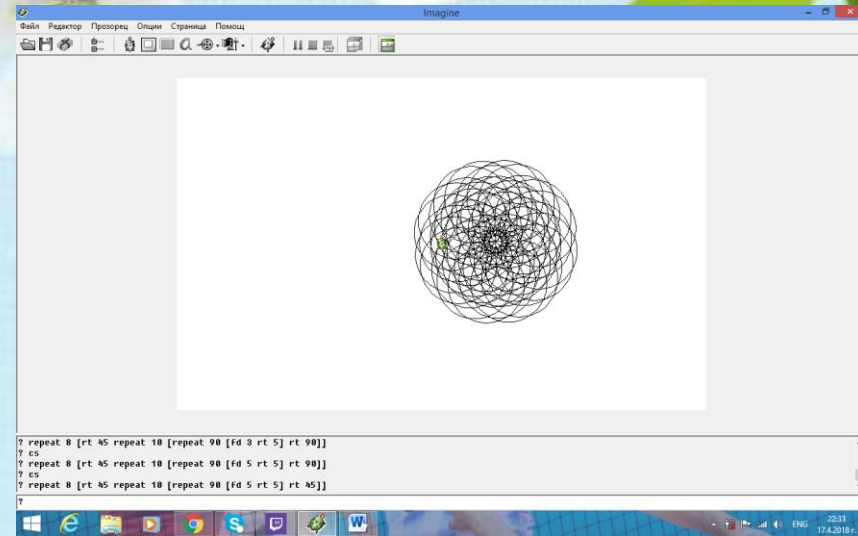
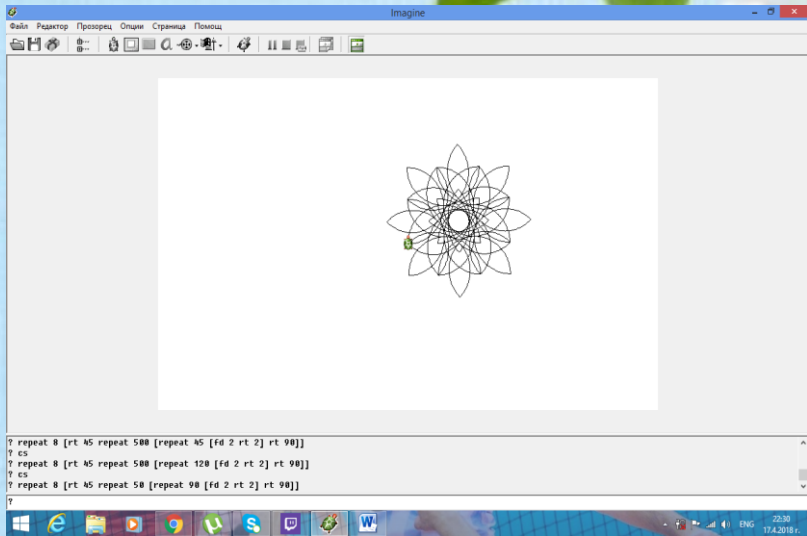
22:30 17.4.2018 г.

Imagine - C:\Users\User\AppData\Local\Temp\Мария Стоикова 1.MP

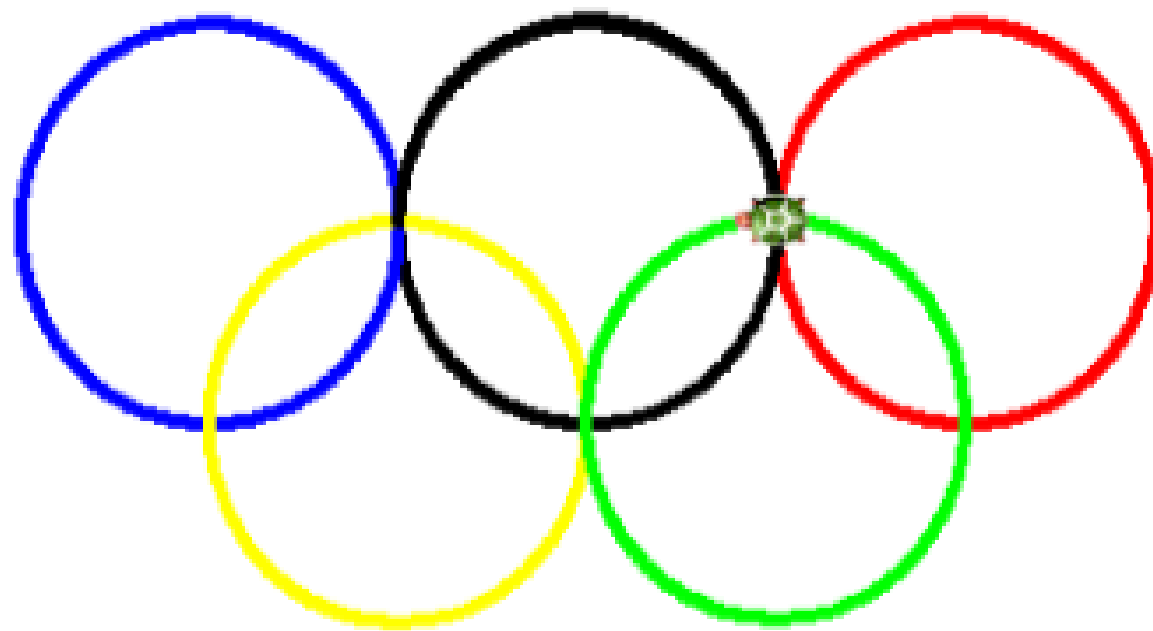
```

?
  
```

33:04 17.4.2018 г.



Жени, с огромна благодарност от мен и учениците ми за изживяната емоция 😊



Най-доброто те първа предстои...