Nama: Viochello Chandra Pelengkahu

Kelas: TIK1091C

penColour('#3333ff');

MK: Prak. Algoritma dan Pemrograman Komputer

Tugas 1 Mandiri Blocky dari Movie sampai Pond

```
MOVIE:
penColour('#ff0000'); circle(50, 70, 10); penColour('#3333ff'); rect(50, 40, 20, 40);
penColour('#000000'); line(60, 50, 80, 70, 5); line(40, 50, 20, 70, 5);
2
penColour('#ff0000'); circle(50, 70, 10); penColour('#3333ff'); rect(50, 40, 20, 40);
penColour('#000000'); line(60, 50, 80, time(), 5); line(40, 50, 20, 70, 5);
3
penColour('#ff0000'); circle(50, 70, 10); penColour('#3333ff'); rect(50, 40, 20, 40);
penColour('#000000'); line(60, 50, 80, time(), 5); line(40, 50, 20, 100 - time(), 5)
penColour('#ff0000'); circle(50, 70, 10); penColour('#3333ff'); rect(50, 40, 20, 40);
penColour('#000000'); line(60, 50, 80, time(), 5); line(40, 50, 20, 100 - time(), 5); line(60, 20, 100
- time(), 0, 5); line(40, 20, time(), 0, 5);
5
penColour('#ff0000');
circle(50, 70, 10);
penColour('#3333ff');
rect(50, 40, 20, 40);
line(40, 50, 20, 100 - time(), 5);
line(60, 50, 80, Math.pow((time() - 50) / 5, 2), 5);
line(40, 20, time(), 0, 5);
line(60, 20, 100 - time(), 0, 5);
6
penColour('#ff0000');
circle(50, 70, 10);
```

```
rect(50, 40, 20, 40);
line(40, 50, 20, 100 - time(), 5);
line(60, 50, 80, Math.pow((time() - 50) / 5, 2), 5);
line(40, 20, time(), 0, 5);
line(60, 20, 100 - time(), 0, 5);
circle(20, 100 - time(), 5);
circle(80, Math.pow((time() - 50) / 5, 2), 5);
7
penColour('#ff0000');
circle(50, 70, 10);
penColour('#3333ff');
rect(50, 40, 20, 40);
line(40, 50, 20, 100 - time(), 5);
line(60, 50, 80, Math.pow((time() - 50) / 5, 2), 5);
line(40, 20, time(), 0, 5);
line(60, 20, 100 - time(), 0, 5);
penColour('#ff0000');
if (time() < 50) {
circle(50, 70, 10);
} else {
 circle(50, 80, 20);
circle(20, 100 - time(), 5);
circle(80, Math.pow((time() - 50) / 5, 2), 5);
8
penColour('#ff0000');
if (time() < 50) {
circle(50, 70, 10);
} else {
 circle(50, 80, 20);
circle(20, 100 - time(), 5);
circle(80, Math.pow((time() - 50) / 5, 2), 5);
```

```
penColour('#3333ff');
rect(50, 40, 20, 40);
line(40, 50, 20, 100 - time(), 5);
line(60, 50, 80, Math.pow((time() - 50) / 5, 2), 5);
if (time() < 50) {
 line(40, 20, time(), 0, 5);
 line(60, 20, 100 - time(), 0, 5);
} else {
 line(40, 20, 100 - time(), 0, 5);
 line(60, 20, time(), 0, 5);
}
9
penColour('#009900');
circle(50, time() / 2, time() / 2);
penColour('#3333ff');
rect(50, 40, 20, 40);
line(40, 50, 20, 100 - time(), 5);
line(60, 50, 80, Math.pow((time() - 50) / 5, 2), 5);
penColour('#ff0000');
if (time() < 50) {
 circle(50, 70, 10);
} else {
 circle(50, 80, 20);
}
circle(20, 100 - time(), 5);
circle(80, Math.pow((time() - 50) / 5, 2), 5);
if (time() < 50) {
 line(40, 20, time(), 0, 5);
 line(60, 20, 100 - time(), 0, 5);
} else {
 line(40, 20, 100 - time(), 0, 5);
 line(60, 20, time(), 0, 5);
        }
```

MUSIC:

```
1
function start1() {
 play(0.25, 7);
 play(0.25, 8);
 play(0.25, 9);
 play(0.25, 7);
}
2
function start1() {
 first_part();
 first_part();
}
function first_part() {
 play(0.25, 7);
 play(0.25, 8);
 play(0.25, 9);
 play(0.25, 7);
}
3
function start1() {
 my_01();
 my_01();
 my_02();
 my_02();
}
function my_02() {
 play(0.25, 9);
 play(0.25, 10);
 play(0.5, 11);
function my_01() {
```

```
play(0.25, 7);
 play(0.25, 8);
 play(0.25, 9);
 play(0.25, 7);
4
function my_02() {
 play(0.25, 9);
 play(0.25, 10);
 play(0.5, 11);
}
function my_01() {
 play(0.25, 7);
 play(0.25, 8);
 play(0.25, 9);
 play(0.25, 7);
}
function my_03() {
 play(0.125, 11);
 play(0.125, 12);
 play(0.125, 11);
 play(0.125, 10);
 play(0.25, 9);
 play(0.25, 7);
}
function start1() {
 my_01();
 my_01();
 my_02();
 my_02();
 my_03();
 my_03();
}
5
function my_04() {
```

```
play(0.25, 7);
 play(0.25, 4);
 play(0.5, 7);
}
function my_02() {
 play(0.25, 9);
 play(0.25, 10);
 play(0.5, 11);
function my_01() {
 play(0.25, 7);
 play(0.25, 8);
 play(0.25, 9);
 play(0.25, 7);
}
function my_03() {
 play(0.125, 11);
 play(0.125, 12);
 play(0.125, 11);
 play(0.125, 10);
 play(0.25, 9);
 play(0.25, 7);
function start1() {
 my_01();
 my_01();
 my_02();
 my_02();
 my_03();
 my_03();
 my_04();
 my_04();
}
6
function my_02() {
```

```
play(0.25, 9);
 play(0.25, 10);
 play(0.5, 11);
}
function my_04() {
 play(0.25, 7);
 play(0.25, 4);
 play(0.5, 7);
function my_01() {
 play(0.25, 7);
 play(0.25, 8);
 play(0.25, 9);
 play(0.25, 7);
}
function my_03() {
 play(0.125, 11);
 play(0.125, 12);
 play(0.125, 11);
 play(0.125, 10);
 play(0.25, 9);
 play(0.25, 7);
function start1() {
 setInstrument('violin');
 my_01();
 my_01();
 my_02();
 my_02();
 my_03();
 my_03();
 my_04();
 my_04();
}
```

```
function my_02() {
 play(0.25, 9);
 play(0.25, 10);
 play(0.5, 11);
function my_04() {
 play(0.25, 7);
 play(0.25, 4);
 play(0.5, 7);
}
function my_01() {
 play(0.25, 7);
 play(0.25, 8);
 play(0.25, 9);
 play(0.25, 7);
function my_03() {
 play(0.125, 11);
 play(0.125, 12);
 play(0.125, 11);
 play(0.125, 10);
 play(0.25, 9);
 play(0.25, 7);
}
function start1() {
 Composed();
}
function start2() {
 rest(1);
 rest(1);
 Composed();
}
```

```
function Composed() {
 setInstrument('violin');
 my_01();
 my_01();
 my_02();
 my_02();
 my_03();
 my_03();
 my_04();
 my_04();
}
function my_02() {
 play(0.25, 9);
 play(0.25, 10);
 play(0.5, 11);
function my_01() {
 play(0.25, 7);
 play(0.25, 8);
 play(0.25, 9);
 play(0.25, 7);
}
function my_03() {
 play(0.125, 11);
 play(0.125, 12);
 play(0.125, 11);
 play(0.125, 10);
 play(0.25, 9);
 play(0.25, 7);
function my_04() {
 play(0.25, 7);
 play(0.25, 4);
 play(0.5, 7);
}
```

```
function start1() {
 Composed();
 Composed();
function Composed() {
 setInstrument('violin');
 my_01();
 my_01();
 my_02();
 my_02();
 my_03();
 my_03();
 my_04();
 my_04();
function start2() {
 rest(1);
 rest(1);
 Composed();
 Composed();
}
9
function my_02() {
 play(0.25, 9);
 play(0.25, 10);
 play(0.5, 11);
}
function Rest() {
 rest(1);
rest(1);
}
function my_01() {
 play(0.25, 7);
```

```
play(0.25, 8);
 play(0.25, 9);
 play(0.25, 7);
}
function my_03() {
 play(0.125, 11);
 play(0.125, 12);
 play(0.125, 11);
 play(0.125, 10);
 play(0.25, 9);
 play(0.25, 7);
}
function my_04() {
 play(0.25, 7);
 play(0.25, 4);
 play(0.5, 7);
}
function start1() {
 setInstrument('piano');
 Composed();
 Composed();
}
function Composed() {
 my_01();
 my_01();
 my_02();
 my_02();
 my_03();
 my_03();
 my_04();
 my_04();
}
function start2() {
 setInstrument('violin');
```

```
Rest();
 Composed();
 Composed();
function start3() {
 setInstrument('drum');
 Rest();
 Rest();
 Rest();
 Composed();
 Composed();
function start4() {
 setInstrument('guitar');
 Rest();
 Rest();
 Composed();
 Composed();
POND TUTOR:
Pond Tutor
cannon(90, 40);
cannon(180, 47);
3
while (true) {
 cannon(45, 60);
```

4

```
while (true) {
 cannon(270, 60);
5
while (true) {
cannon(180, scan(180));
6
while (true) {
 cannon(0, scan(0));
}
swim(315);
8
swim(280);
9
while (true) {
if (getX() < 50) {
  swim(0);
 } else {
  stop();
  cannon(0, 40);
}
10
while (true) {
 cannon(45, scan(45));
 if (getX() < 50) {
  swim(45);
 \} else if (getY() < 50) {
  swim(0);
 } else {
  stop();
```

```
POND:
var dir;

dir = Math.random() + 120;
while (true) {
  if (scan(dir) <= 70) {
    swim(dir);
    cannon(dir, scan(dir));
  }
  dir = dir + 5;
```