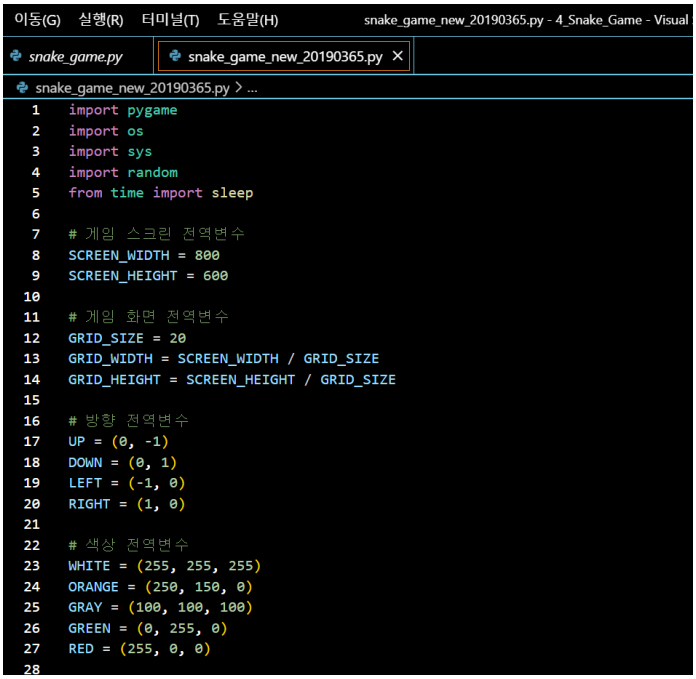
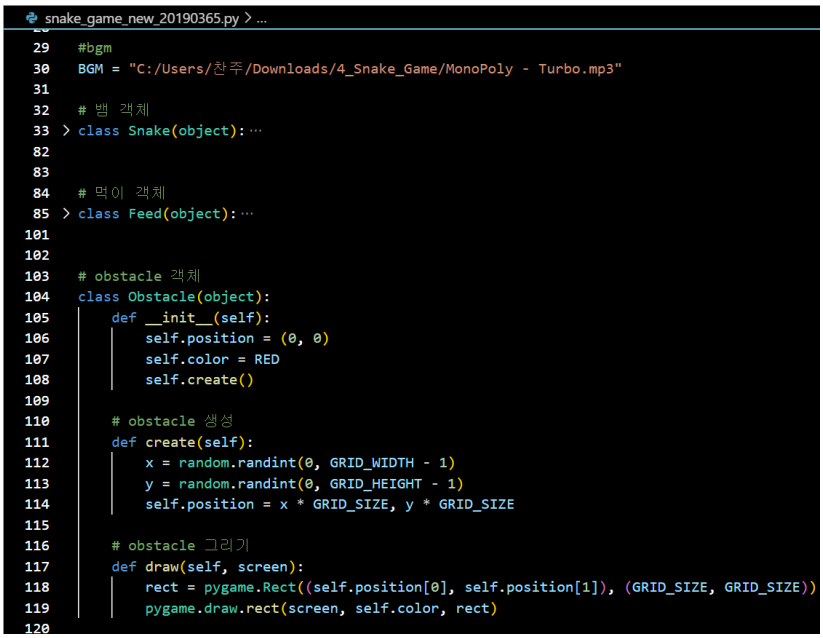


#20190365 김찬주

색상 전역변수 GREEN, RED 추가

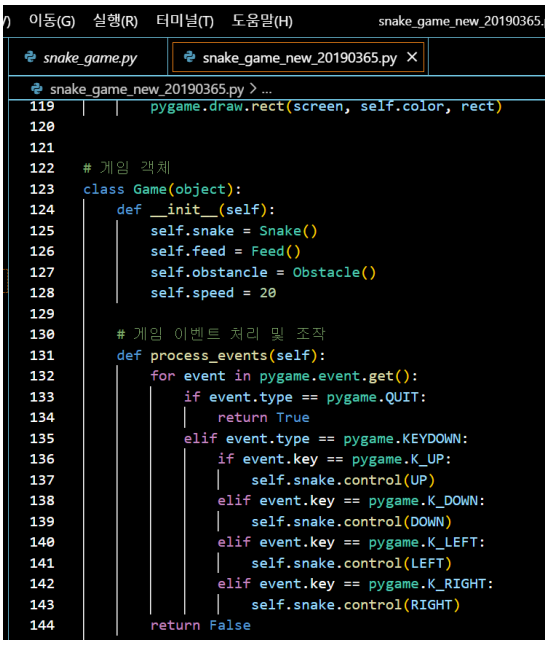


BGM 파일명 변수 정의

Obstacle 객체 생성

-feed와 같은 방식으로 생성

-색상만 RED로 바꿈



객체 추가를 위해 self.obstacle = Obstacle() 코드 추가

```
145
146     # 게임 로직 수행
147     def run_logic(self):
148         self.snake.move()
149         self.check_eat(self.snake, self.feed)
150         self.check_obs(self.snake, self.obstancle)
151         self.speed = (20 + self.snake.length) / 4
152
153
154     # 뱀이 먹이를 먹었는지 체크
155     def check_eat(self, snake, feed):
156         if snake.positions[0] == feed.position:
157             snake.eat()
158             feed.create()
159
160     def check_obs(self, snake, obstacle):
161         if snake.positions[0] == obstacle.position:
162             obstacle.create()
163             snake.create()
164
165     def resource_path(self, relative_path):
166         try:
167             base_path = sys._MEIPASS
168         except Exception:
169             base_path = os.path.abspath(".")
170         return os.path.join(base_path, relative_path)
```

check_obs 함수

-뱀이 장애물에 닿을 경우 뱀 처음부터 다시 생성

장애물 다시 생성

이동(G) 실행(R) 터미널(T) 도움말(H) snake_game_new_20190365.py - 4_Snake_Game - Visual Studio Code

snake_game.py | snake_game_new_20190365.py

snake_game_new_20190365.py > ...

```
171
172     # 게임 정보 출력
173     def draw_info(self, length, speed, screen):
174         info = "Length: " + str(length) + "     " + "Speed: " + str(round(speed, 2))
175         font_path = resource_path("assets/NanumGothicCoding-Bold.ttf")
176         font = pygame.font.Font(font_path, 26)
177         text_obj = font.render(info, 1, GRAY)
178         text_rect = text_obj.get_rect()
179         text_rect.x, text_rect.y = 10, 10
180         screen.blit(text_obj, text_rect)
181
182     # 게임 프레임 처리
183     def display_frame(self, screen):
184         screen.fill(GREEN)      #screen: color changing
185         self.draw_info(self.snake.length, self.speed, screen)
186         self.snake.draw(screen)
187         self.feed.draw(screen)
188         self.obstancle.draw(screen)
189         screen.blit(screen, (0, 0))
190
191 # 리소스 경로 설정
192 def resource_path(relative_path):
193     try:
194         base_path = sys._MEIPASS
195     except Exception:
196         base_path = os.path.abspath(".")
197     return os.path.join(base_path, relative_path)
198
```

Screen 색상 GREEN으로 변경

Obstacle도 screen에 draw

이동(G) 실행(R) 터미널(T) 도움말(H) snake_game_new_20190365.py - 4_Snake_Game -

snake_game.py | snake_game_new_20190365.py

snake_game_new_20190365.py > ...

```
198
199
200 def main():
201     # 게임 초기화 및 환경 설정
202     pygame.init()
203     pygame.display.set_caption('Snake Game')
204
205     bgm = pygame.mixer.Sound(BGM)
206     screen = pygame.display.set_mode((SCREEN_WIDTH, SCREEN_HEIGHT))
207     clock = pygame.time.Clock()
208     game = Game()
209
210     done = False
211     while not done:
212         bgm.play(1)
213         done = game.process_events()
214         game.run_logic()
215         game.display_frame(screen)
216         pygame.display.flip()
217         clock.tick(game.speed)
218
219     pygame.quit()
220
221
222 if __name__ == '__main__':
223     main()
224
```

mixer.sound 사용하여 BGM 인풋

BGM 무한 재생