#5-05ソースコード

MainCtrl.cs

```
using System.Collections;
using System.Collections.Generic;
using UnityEngine;
public class MainCtrl : MonoBehaviour {
  enum GAMEMODE {
   TITLE,
   PLAY,
    END
  };
  GAMEMODE nowmode;
  public Transform titleInfoGroup;
  public Player player;
  public Transform goalMarker;
  // Use this for initialization
  void Start() {
   nowmode = GAMEMODE.TITLE;
   titleInfoGroup.gameObject.SetActive(true);
    player.IsStop = true;
  }
  // Update is called once per frame
  void Update() {
    switch (nowmode) {
     case GAMEMODE.TITLE:
        //titleモードのときにここのプログラムが動く
        if (Input.GetButtonDown("Jump")) {
         nowmode = GAMEMODE.PLAY;
          //タイトルロゴなどを消す
         titleInfoGroup.gameObject.SetActive(false);
          //プレイヤーを動かす
          player.IsStop = false;
        break;
     case GAMEMODE.PLAY:
        if(player.transform.position.x > goalMarker.position.x) {
          player.IsStop = true;
          nowmode = GAMEMODE.END;
        break;
      case GAMEMODE.END:
        break;
    }
  }
}
```

Player.cs

```
using System.Collections;
using System.Collections.Generic;
using UnityEngine;
public class Player : MonoBehaviour {
 int score;
               //スコア
  public UnityEngine.UI.Text scoreValue;
 float downSpeed;
                    //落下速度
  Rigidbody2D rb;
                    //物理演算コンポーネント
  Animator animCtrl; //アニメーションコントロール
  AudioSource audioSource;
                          //オーディオコンポーネント
  public AudioClip[] sounds;
  public bool IsStop;
  // Use this for initialization
 void Start() { //初期化処理
   rb = GetComponent<Rigidbody2D>();
   animCtrl = GetComponent<Animator>();
   downSpeed = 0;
   score = 0;
   scoreValue.text = score.ToString(); //スコアの表示
   audioSource = GetComponent<AudioSource>();
   IsStop = true;
   animCtrl.SetBool("IsIdle", true);
 }
  // Update is called once per frame
 void Update() {
   if (IsStop) return;
   RaycastHit2D hit;
   //下方向チェック
   hit = Physics2D.Raycast(transform.position + new Vector3(-0.32f, -0.32f), Vector2.right,
0.64f);
   if (hit.transform != null) {
                       //すぐ下がってめり込んでしまうのに対処
     downSpeed = 0;
     animCtrl.SetBool("IsGround", true);
     if (Input.GetButtonDown("Jump")) { //ジャンプのボタン判定
       downSpeed = 6.5f;
       transform.Translate(Vector3.up * 0.01f); //ジャンプしてもRaycastに引っかかってしまう対策
       audioSource.PlayOneShot(sounds[0]);
     }
   } else {
     animCtrl.SetBool("IsGround", false);
                           //落下速度をどんどん早くする
     downSpeed += -0.3f;
   }
   hit = Physics2D.Raycast(transform.position + new Vector3(0.34f, 0.26f), Vector2.down,
0.52f);
   if (hit.transform != null) {
     //障害物に当たった
     animCtrl.SetBool("IsIdle", true);
   } else {
     //障害物に当たっていない
     animCtrl.SetBool("IsIdle", false);
   }
```