```
1 import pygame
2 pygame.init()
3 import time
4 import random
7 display width = 800
8 display height = 600
9 gameDisplay=pygame.display.set mode((display width, display height))
10 clock = pygame.time.Clock()
11
12 black = (0,0,0)
13 white = (255, 255, 255)
15 | ironManImg = pygame.image.load('assets/ironLarge.png')
16 missile = pygame.image.load('assets/missile.png')
17
18 gameIcon = pygame.image.load('assets/ironIcon.png')
19 pygame.display.set icon(gameIcon)
20 pygame.display.set caption('Iron Man - Marcão')
21
22 bg = pygame.image.load("assets/sky.png")
23 explosaoSound = pygame.mixer.Sound("assets/explosao.wav")
24 missileSound = pygame.mixer.Sound("assets/missile.wav")
25
26
28 def mostraIron(x,y):
29
      gameDisplay.blit(ironManImg, (x,y))
30
31 def text objects (text, font):
32
      textSurface = font.render(text, True, black)
33
      return textSurface, textSurface.get rect()
34
35 def message_display(text):
36
      largeText = pygame.font.Font('freesansbold.ttf',115)
37
      TextSurf, TextRect = text objects(text, largeText)
38
      TextRect.center = ((display width/2), (display height/2))
39
     gameDisplay.blit(TextSurf, TextRect)
40
      pygame.display.update()
41
     time.sleep(2)
42
      game loop()
43
44 def dead():
45
      pygame.mixer.Sound.play(explosaoSound)
46
      pygame.mixer.music.stop()
47
      message display('Você Morreu')
48
49 def mostraArmas (posicaoX, posicaoY):
50
      gameDisplay.blit(missile, (posicaoX, posicaoY))
51
52 def escrevendoPlacar(count):
53
      font = pygame.font.SysFont(None, 25)
54
      text = font.render("Desvios: "+str(count), True, black)
55
      gameDisplay.blit(text,(0,0))
56
57
58 | ############# Looping do Jogo ###############
```

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```
59 def game loop():
 60
        pygame.mixer.music.load('assets/ironsound.mp3')
 61
        pygame.mixer.music.play(-1)
 62
 63
        ironPosicaoX = (display width * 0.45)
 64
       ironPosicaoY = (display height * 0.8)
 65
       iron width = 120
 66
       movimentoX = 0
 67
       missileX = random.randrange(0, display width)
 68
       missileY = -600
 69
       missileHeight = 250
 70
       missileWidht = 50
 71
       missileXSpped = 7
 72
       desvios =0
 73
       while True:
 74
            for event in pygame.event.get():
 75
                if event.type == pygame.QUIT:
 76
                    pygame.quit()
 77
                    quit()
 78
 79
                if event.type == pygame.KEYDOWN:
 80
                    if event.key == pygame.K LEFT:
 81
                        movimentoX = -5
 82
                    elif event.key == pygame.K RIGHT:
 83
                        movimentoX = 5
 84
                if event.type == pygame.KEYUP:
 85
                    if event.key == pygame.K LEFT or event.key == pygame.K RIGHT:
 86
                        movimentoX = 0
 87
            ironPosicaoX += movimentoX
 88
 89
            if ironPosicaoX > display width - iron width or ironPosicaoX < 0:</pre>
 90
                #quit()
 91
                dead()
 92
 93
            gameDisplay.fill(white)
 94
            gameDisplay.blit(bg, (0,0))
 95
            mostraIron(ironPosicaoX,ironPosicaoY)
 96
            escrevendoPlacar(desvios)
 97
 98
            mostraArmas (missileX, missileY)
 99
            missileY += missileXSpped
100
101
            if missileY > display height:
102
                pygame.mixer.Sound.play(missileSound)
103
                missileY = 0 - missileHeight
104
                missileX = random.randrange(0, display width)
105
                missileXSpped+=1
106
                desvios += 1
107
108
109
            if ironPosicaoY < missileY + missileHeight:</pre>
110
                #print("Analisando Colisão")
111
                #print(ironPosicaoX, ironPosicaoX+iron width)
112
                #print(missileX, missileX+missileWidht)
                if ironPosicaoX < missileX and ironPosicaoX+iron width > missileX or
   missileX+missileWidht > ironPosicaoX and missileX+missileWidht <
   ironPosicaoX+iron width:
114
                    dead()
115
```

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