

Component C. Personalized Project Reference.

Procedure:

i.

```

15 def username_creation(message):
16     global username
17     global usernames_list
18     username = s.textinput(message, "Username: ")
19     while True:
20         if username in usernames_list:
21             v = Turtle()
22             v.penup()
23             v.goto(-50, 100)
24             v.shape('square')
25             v.pencolor("beige")
26             v.fillcolor("beige")
27             v.shapesize(40, 50)
28             break
29         else:
30             new_user = s.textinput("You don't have a pre-existing username!", "Create a new username: ")
31             usernames_list.append(new_user)
32             username = s.textinput("Sign In", "Username: ")

```

ii.

34 username_creation("Sign In")

97 username_creation("Sign Out")

List:

i.

```

156 Argentina = s.textinput("What is the capital city of...", "Argentina")
157 Peru = s.textinput("What is the capital city of...", "Peru")
158 Chile = s.textinput("What is the capital city of...", "Chile")
159 south_america = {Argentina: "Buenos Aires", Peru: "Lima", Chile: "Santiago"}

```

ii.

```
153 def south_america_questions(x, y):
154     global score
155     global completed
156     Argentina = s.textinput("What is the capital city of...", "Argentina")
157     Peru = s.textinput("What is the capital city of...", "Peru")
158     Chile = s.textinput("What is the capital city of...", "Chile")
159     south_america = {Argentina: "Buenos Aires", Peru: "Lima", Chile: "Santiago"}
160     for key, value in south_america.items():
161         if key == value:
162             score += 1
163             z = Turtle()
164             z.penup()
165             z.goto(-350, 325)
166             z.shape('square')
167             z.pencolor("beige")
168             z.fillcolor("beige")
169             z.shapesize(2, 10)
170             t.penup()
171             t.goto(-350, 325)
172             t.color("black")
173             t.write(f"Score: {score}", align='left', font=('Courier New', 18, 'bold'))
```