

# PRACTICE REPORTS

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## Activity 01 – Python introduction

In this practice we learn basic functions of Python, like printing, and state constants and variants. This activity shows a ticket that uses all the functions requested by the teacher from a clothing store in Galerías Pachuca.

### CODE:

```
DIVIDER = '*****'
name = 'Bomber Jacket'
price = 250.98
quantity = 2
color = 'Black and white'
store = 'Galerías Pachuca'
total = price*quantity
cute_message = 'Thanks for buying with us'
print (DIVIDER)
print ("PRODUCT :{}".format(name))
print ("PRICE : {}".format(price))
print (DIVIDER)
print ("QUANTITY : {}".format (quantity))
print ("MODEL : {}".format (color))
print (DIVIDER)
print ("STORE : {}".format (store))
print (DIVIDER)
print ("TOTAL : {}".format(total))
print (DIVIDER)
print (cute_message)
print (DIVIDER)
```

## Activity 02 – Simple AI

Once we learn how to use IF in Python, we were able to create a really simple AI that depending on your answers it acts different, giving variable answers according to the information you give to it. This activity introduces Mariela, an AI interested in movies and series recommendations.

### CODE:

```
id = 'Mariela'
print ('Hi, my name is Mariela')
print ('Are you okay with it?')
print ('Yes/No: ')
name=input()
if name == 'Yes':
    print ("I'm glad you say yes. I love my name, actually :D")
else:
    print ("Well, wich name would you prefer?")
    id = input()
    print ("Okay, let's do this again. Hi, my name is {}".format(id))

print ("Now that you know my name I would like to know yours")
user=input()
print ("Nice to meet you {}".format(user))

print ("I think it would be nice if we were friends, what do you think?")
print ('Yes/No: ')
friends=input()

if friends == 'Yes':
    print ("Amazing! My first human friend :D")
    print ("Let's get to know each other, okay?")
    print ("My favourite TV Show is Game of Thrones, what about you?")
    show=input()
    if show == 'Game of Thrones':
        print ("Really? Oh! We have so much in common")
    else:
        print ("I don't know that show, I will check it out later. But I really recomend you to watch GOT")
    print ("Now let's talk about music. Do you know The Cure?")
    print ('Yes/No: ')
    band=input()
    if band == 'Yes':
        print ("They are great! I could say they are my favourite.")
    else:
        print ("You should listen to them, they are amazing ;D")
    print ("I would love to continue talking to you but I need to go. Goodbye {}".format(user))
    print ("Have a nice human day :D")
else:
    print ("Amm.. okay. Then I don't see the point in continue talking. Goodbye {}".format(user))
```

### **Activity 03 – CVS Introduction**

GIT is a versions control software created to improve efficiency in the version maintenance of applications. We use Git Hub to upload our Python projects and more files created for this cut.

#### **GIT HUB LINK:**

<https://github.com/And-Caudillo/Industry-4.0.git>

### Activity 04 – Target creation for Augmented Reality

Augmented reality needs a target where to work on, in this case it's a set image. We use Vuforia platform to evaluate our target according to the points of reference (which need to be sharpened edges) and the resolution of it. My marker is a Bubbles' pixel art image that I got from internet, but I re-created it pixel by pixel, with different colours and a bright background.

