## Universidad Politecnica Salesiana

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***Fecha: 5/4/2021***

In [1]:

```
import random
import matplotlib.pyplot as plot
```

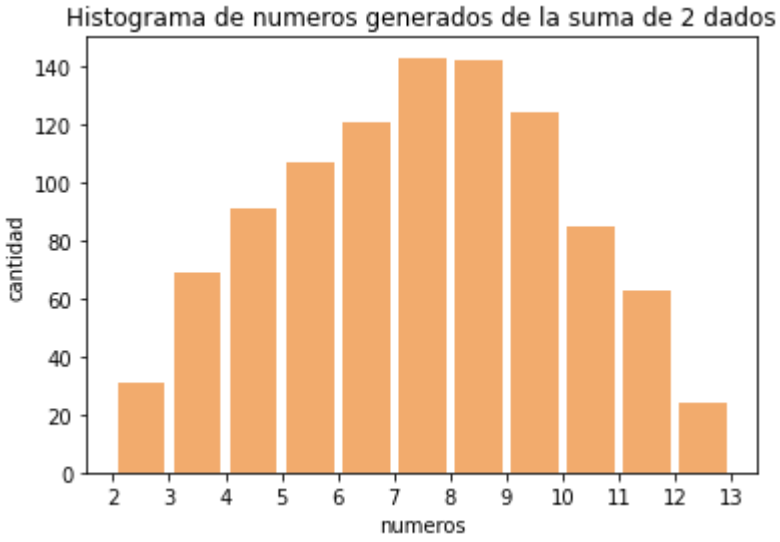
In [9]:

```
num2=0
num3=0
num4=0
num5=0
num6=0
num7=0
num8=0
num9=0
num10=0
num11=0
num12=0

histo = []
for i in range(1000):
    dado1 = random.randint(1,6)
    dado2 = random.randint(1,6)
    suma = dado1+dado2
    histo.append(suma)
    if(suma==2):
        num2=num2+1
    if(suma==3):
        num3=num3+1
    if(suma==4):
        num4=num4+1
    if(suma==5):
        num5=num5+1
    if(suma==6):
        num6=num6+1
    if(suma==7):
        num7=num7+1
    if(suma==8):
        num8=num8+1
    if(suma==9):
        num9=num9+1
    if(suma==10):
        num10=num10+1
    if(suma==11):
        num11=num11+1
    if(suma==12):
        num12=num12+1

print("Sumas de dados: ")
print("2: "+str(num2))
print("3: "+str(num3))
print("4: "+str(num4))
print("5: "+str(num5))
print("6: "+str(num6))
print("7: "+str(num7))
print("8: "+str(num8))
print("9: "+str(num9))
print("10: "+str(num10))
print("11: "+str(num11))
print("12: "+str(num12))

numero = 0
veces = 0
if (num2>num3 and num2>num4 and num2>num5 and num2>num6 and num2>num7 and num2>num8 an
and num2>num10 and num2>num11 and num2>num12):
```

```
    veces=num2
    numero=2
elif (num3>num4 and num3>num5 and num3>num6 and num3>num7 and num3>num8 and num3>num9
and num3>num10 and num3>num11 and num3>num12):
    veces=num3
    numero=3
elif (num4>num5 and num4>num6 and num4>num7 and num4>num8 and num4>num9 \
and num4>num10 and num4>num11 and num4>num12):
    veces=num4
    numero=4
elif (num5>num6 and num5>num7 and num5>num8 and num5>num9 \
and num5>num10 and num5>num11 and num5>num12):
    veces=num5
    numero=5
elif (num6>num7 and num6>num8 and num6>num8 and num6>num9 and num6>num10 and num6>num1
    veces=num6
    numero=6
elif (num7>num8 and num7>num8 and num7>num9 and num7>num10 and num7>num11 and num7>num
    veces=num7
    numero=7
elif (num8>num9 and num8>num10 and num8>num11 and num8>num12):
    veces=num8
    numero=8
elif (num9>num10 and num9>num11 and num9>num12):
    veces=num9
    numero=9
elif (num10>num11 and num10>num12):
    veces=num10
    numero=10
elif (num11>num12):
    veces = num11
    numero = 11
else:
    veces=num12
    numero = 12
print("El numero que mas salio es numero "+str(numero)+" salio "+str(veces)+" veces")

print(numbers)
intervalos = [2,3,4,5,6,7,8,9,10,11,12,13]

plot.hist(x=histo, bins=intervalos, color='#F2AB6D', rwidth=0.85)
plot.title('Histograma de numeros generados de la suma de 2 dados')
plot.xlabel('numeros')
plot.ylabel('cantidad')
plot.xticks(intervalos)

plot.show() #dibujamos el histograma
```

```
Sumas de dados:
2: 31
3: 69
4: 91
5: 107
6: 121
7: 143
8: 142
9: 124
10: 85
11: 63
12: 24
```

```
El numero que mas salio es numero 7 salio 143 veces
[66, 144, 352, 615, 786, 1057, 1208, 918, 920, 561, 360]
```




In [ ]:

```
1
```