

**2021
REPORT**

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ASSIGNMENT 1- SOFTWARE
DEVELOPMENT
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SOFTWARE DEVELOPMENT A2 PRACTICAL TEST

BSC CLOUD COMPUTING
MODULE: ACCB4017
SOFTWARE DEVELOPMENT

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1. PART ONE-ANSWERS

1.

a) Baggage

b) Line 1 - double quotes, Line 2- bracket, Line 3 - Equal sign

c) i) for i in range(50): print(i) - 49

ii) for i in range(0,10,2): print(i) -5(0,2,4,6,8)

d) total=0

e) Height = ["30", "42", "55", "30", "41"]

i) Height = ["30", "42", "55", "30", "41"]

print(Height)

ii) Height = ["30", "42", "55", "30", "41"]

print(Height[0])

2.PART TWO - ANSWERS

1. Calculating the area of a triangle The area of a triangle is calculated using the formula **Area = 1/2 * b * h**, where **b** is breadth and **h** is height of a triangle.

If a, **b** and **h** are three sides of a triangle. Then,

$$s = (a+b+h)/2$$

$$\text{area} = \sqrt{(s(s-a)*(s-b)*(s-h))}$$

SCRIPT:

```
# Program to find the area of triangle
```

```
a = 5
```

```
b = 6
```

```
h = 7
```

```
# Take inputs from the user
```

```
# a = float(input('Enter first side: '))
```

```
# b = float(input('Enter second side: '))
```

```
# h = float(input('Enter third side: '))
```

```
# calculate the semi-perimeter
```

```
s = (a + b + h) / 2
```

```
# calculate the area
```

```
area = (s*(s-a)*(s-b)*(s-h)) ** 0.5
```

```
print('The area of the triangle is %0.2f' %area)
```

2.PART TWO - ANSWERS

OUTPUT:

Enter first side: 5

Enter second side: 6

Enter third side: 7

The area of the triangle is 14.70

2.PART TWO - ANSWERS

3. Using Turtle Using Python with turtle, draw the following shape :

```
from turtle import *
```

```
drawing_area = Screen()
```

```
drawing_area.setup(width=750, height=500)
```

```
shape('triangle')
```

```
def draw_triangle(length=150):
```

```
    for i in range(3):
```

```
        forward(length)
```

```
        left(120)
```

```
draw_triangle()
```

```
done()
```