

RESULT IMAGES

1. NUMBER FUNCTIONS

```

8  '''
9  #NUMBER FUNCTIONS
10 #abs() function
11 positive_num = 10
12 value_num = abs(positive_num)
13 print(" Value Number: ", value_num)
14
15 #int() function
16 num_str = "100"
17 num_int = int(num_str)
18 print(" Integer:", num_int)
19
20 #min() function
21 numbers = [3, 9, 10, 15]
22 min_value = min(numbers)
23 print(" Minimum value:", min_value)
24 print(" ")
25

```

```

Value Number:  10
Integer: 100
Minimum value: 3

```

2. POWER AND LOGARITHMIC FUNCTIONS

```

26 #POWER AND LOGARITHMIC FUNCTIONS
27 #exponentiation operator
28 base = 3
29 exponent = 3
30 print( "", base ** exponent)
31
32 #Logarithm base 10
33 import math
34
35 x = 100
36 result = math.log10(x)
37 print("", result)
38
39 #natural algorithm
40 x = 10
41 result = math.log(x)
42 print("", result)
43 print("")
44

```

```

27
2.0
2.302585092994046

```

3. . TRIGONOMETRIC FUNCTIONS

```

44
45 #TRIGONOMETRIC FUNCTIONS
46 import math
47
48 angle = math.radians(40) # Convert degrees to radians
49 print(" Sine:", math.sin(angle))
50 print(" Cosine:", math.cos(angle))
51 print(" Tangen:", math.tan(angle))
52 print("")
53

```

```

Sine: 0.6427876096865393
Cosine: 0.766044443118978
Tangen: 0.8390996311772799

```

4. ANGULAR CONVERSION FUNCTIONS

```
53
54 #ANGULAR CONVERSION FUNCTIONS
55 import math
56
57 # Convert degrees to radians
58 angle_degrees = 45
59 angle_radians = math.radians(angle_degrees)
60 print(" degrees in radians:", angle_radians)
61
62 # Convert radians to degrees
63 angle_radians = math.pi / 4
64 angle_degrees = math.degrees(angle_radians)
65 print(" radians in degrees:", angle_degrees)
66 print("")
67
```

```
degrees in radians: 0.7853981633974483
radians in degrees: 45.0
```

5. HYPERBOLIC FUNCTIONS

```
68 #HYPERBOLIC FUNCTIONS
69 import math
70
71 # Hyperbolic functions
72 x = 2
73 print(" sine of 2:", math.sinh(x))
74 print(" cosine of 2:", math.cosh(x))
75 print(" tangent of 2:", math.tanh(x))
76 print(" acosh of 2:", math.tanh(x))
77 print(" asinh of 2:", math.tanh(x))
78
```

```
sine of 2: 3.626860407847019
cosine of 2: 3.7621956910836314
tangent of 2: 0.9640275800758169
acosh of 2: 0.9640275800758169
asinh of 2: 0.9640275800758169
```