Exprof Task 1. Running Python script and various Vate 23.78 expressions in an interactive Interpretor. stin: To write a python program for various expressions in an interactive interpreter 1.1. Temperature converter (celsuis to Fakrusheit) Scenevio: - A weather app needs to convert temperature from Celsuis to Fater Fahrenheite Algorithm; step 1) - Initialize a variable styv2;- Assign a value for variable styv 3 :- Calculate Fahrenheit = (celsuis +9/5) +32 step 4: - Execute the well 13 output code inandipe course : 123 286 Celeius = 37 Fahrenheit = (celsius ×915) +32 Print C'I Tempévature in farenniet: 1, fahrenheit

1.10 atput :-Temperature in fahrenheit: 98.6

1-2 Simple Interest Calculator scenario: A bank application calculates singele Interest for a customer. Algorithm step 1:- Initializi a variable step 2:- Assign a value for fruninjal, rate, time styr 3; (alculate Interest - (Principle * rate * time Interest = (principle * rate * time)/100 Styr 4; - Execute the code. Code :-Principle = 10,000 ? vate = 5 time = 3 interest = (principle + rate + time)/100 Print (" simple interest:", interest) 1.3 Area of wick Scenario: - A geometry tool calculates the area of a circle from its radius Algorithm !stepo 1 - Fritaliza a variable for radius stepo 2:- Assigno Pi = 3.14 & radius = 7

The state of the s 1.20 atput; simple interest: 1500.0 All the first of the second of I I Temperature convertes Colquis to Fabrushell be in the one offer of more than in Inquistros from Educio do Fisher For sea tail Algorithms ship I i trately a describe signing things a value for various. Atyes 3: Calulate Tabrangian = (ilsinis 7/5)13 ships i tarente in onte 1.3 output: area of the circle: 183-86 is the state of th The section of the

step 3: - (almoste drea = Pi* (vadius # *2)
step 4: - for Execute the result.

Coole:

Vadius = 7

Pi = 3.14

avea = pi * (radius * * 2)

print ('Area of the circle wi', area)

1.4 Circle Circum Sevence

Scenario: A geometry tool calculates euroumference

ob circle

Algorithm:

Steps 1: Juitalize a variable

steps 2: - Assign a value for variable & pi=3.14

steps 3: - Calculate arcumference = 2 * pi * radius

Code

Nadius =5

Ri = 3.14

Circumference = 2 + p; K radius

Print ("Circumference: ", circumference)

Styr 4,- Execute the code.

and the second s and the telement of mayor in a land Endust (... years of wife ...) 1.4 output: Circumference of the circle: 43.96 Marchet Employ interest interest

1.5 speed calculation scenario: A travel app calculates average speed using olistance L'Eine. Algorithm step 1:- Juitaluje a va The values for distance time, speed. Ster 2: - Arign values for obstance, time, speed step 3: calculate desten speed = distance time step 4: - Execute the wde. coele: distance = 300 # Km time = 5 # hours speed = distance l'time print (" dverage speed:", speed, "Km/h"). Result :-Running python sount and various eseptressions in an interactive interpreter is reribied, compiled & executed.

1.5 output: average speed: #60.0 Km/h