Assignment - 2

1) write a python program to design simple calculator for the operators. + (addition) - (subtaction), * (multiplication), / (division), 1/6 (modulus), * * (exponent), / (Floor division) A) # simple calculator. c="nput ("enter a string"); a = int (input ("enter the value of a: ")) b = int (input ("enter the value of 68")) # (c== +): paint (a, "+", b, ";", (a+b)) elif (c== 1-1): paint (a,"-", b,":", (a-b)) elf (c=='x'); paint (a, "*", b, ";", (a*b)) elif (c== '/'): paint (a,"/",b,":", (a/b)) elf (c== 1 % 1): paint (a, "x", b, ":", (a%b)) elif (c== '//'): paint (a, "//", b,":", (allb)) elif (c== 1 *x1): print (a, " ** ", b, ":", (a ** b)) alse:

paint ("invalid input)

- 2) write a python program to calculate simple interest.
- A) P = int (input ("enter the value of p:")) t = int (input ("enter the value of t:")) 8 = int (input ("enter the value of s:")) 8 = ((p*t*8)/100) P = int ("simple interest:", si)
- (3) White a Python program to calculate agen of Cipcle.

 A) $\chi = int(input("enter the godius value:"))$
 - A) 8 = int(input("enter the gadius value:")asea = 3.142*8*8 paint("apea of ciacle", agea)
- (4) write a python program to calculate open of
 - thingle.

 b = float (input ("enter the base"))

 h = float (input ("enter height"))

 apea of _ thingle = 0.5 * b * h.

 print ("apea of triangle", apea of _ triangle)
- (5) write a python program to convert the temperature from celsius to Fahrenheit.
 - A) C = Ploat ("nput ("enter the temperature value" in celsius:")) P = (1.8 * c) + 32.Point ("temperature in fahrenheit;", P)
- (6) white a python program to calculate open of rectangle.

 length = float (input ("enter length"))

 bogodth = float (input ("enter breadth"))

 agea = length * breadth.

 print ("agea of rectangle;", agea)

- (7) white a python program to calculate perimeter of a equate ("enter the side:"))

 perimeter = 4 a.

 print ("perimeter of the equate ", perimeter)
- (8) white a python program to calculate circumference of a circle.

 A) 8= float (input ("enter the podius value;"))

 C= 2*8.142*8.

 Print ("circumference of the circle:", c)

- (a) write a python program to swap two numbers.
 - A) #Swopping two numbers,

 \[a = \int(\input(\"\enter \text{the value.of } a :\")) \]

 \[b = \int(\input(\"\enter \text{the value of } b\inft)\")) \]

 \[\text{paint("\under \text{the value of } \text{popping } \inft(\"\under \))

 \[\text{paint("\under \text{value of } \text{before swapping } \inft(\"\under \))

 \[\text{a = a + b} \]

 \[\text{a = a b} \]

 \[\text{paint("\under \text{value of } \text{a after swapping } \inft(\"\under \))

 \[\text{paint("\under \text{value of } \text{b after swapping } \inft(\"\under \))

 \[\text{paint("\under \text{value of } \text{b after swapping } \inft(\"\under \))