ASSIGNMENT(MODULE 1)

1)Write python program to design simple calculator for the operators + Addition - Subtraction * multiplication / division % modulus ** exponent // floor division a) a=int(input("enter a value")) b=int(input("enter b value")) c=a+b d=a-b e=a*b f=a/b g=a**b h=a%b i=a//bprint("the sum is",c) print("the difference is",d) print("product is",e) print("division is",f) print("power is",g) print("remainder is",h) print("quotient is",i) Output: enter a value 8

enter b value 2

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the sum is 10
the difference is 6
product is 16
division is 4.0
power is 64
remainder is 0
quotient is 4
2)Write a python program to calculate simple interest
a)p=float(input("enter the value of principle p"))
t=float(input("enter the value of time t"))
r=float(input("enter the value of rate of interest r"))
s=(p*t*r)/100
print("simple interest is",s )
Output:
enter the value of principle p 50
enter the value of time t 50
enter the value of rate of interest r 50
simple interest is 1250.0
3)Write a python program to calculate area of a circle
a)pi=3.14
r=float(input("Enter the radius of circle"))
a=pi*r*r
print("area of circle is",a)
Output:
Enter the radius of circle 5
area of circle is 78.5
4)Write a python program to calculate area of triangle
a)w=float(input("enter the width of the triangle"))
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h=float(input("enter the height of the triangle"))
a=0.5*w*h
print("area of triangle",a)
Output:
enter the width of the triangle 15
enter the height of the triangle 14
area of triangle 105.0
5)Write a python program to convert temperature in celsius to fahrenheit
a) c=float(input("enter the temperature in celsius"))
f=1.8*c+32
print("the temperature in fahrenheit is ",f)
Output:
enter the temperature in celsius 10
the temperature in fahrenheit is 50.0
6)Write a python program to calculate area of rectangle
a)l=float(input("enter length of rectangle"))
b=float(input("enter breadth of rectangle"))
a=2*(l+b)
print("area of rectangle is ",a)
Output:
enter length of rectangle 2
enter breadth of rectangle 2
area of rectangle is 8.0
7)write a program to calculate perimeter of square
a)a=float(input("enter side of square"))
p=4*a
print("perimeter of square",p)
Output:
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a=float(input("enter side of square"))
p=4*a
print("perimeter of square",p)
8)write a python program to find circumference of circle
a)pi=3.14
r=float(input("enter radius of circle"))
c=pi*2*r
print("circumference of circle is",c)
Output:
enter radius of circle 2
circumference of circle is 12.56
9)Write a python program to swap two numbers
a)a=float(input("enter a value"))
b=float(input("enter b value"))
temp=a
a=b
b=temp
print("a=",a)
print("b=",b)
Output:
enter a value 3
enter b value 2
a = 2.0
b = 3.0
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