DAILYWORK(18 AUGUST 2023 TO 24 AUGUST 2023)

Q Algorithm to add two numbers?

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Step1: Take a number a as first input a=10

Step2: Take a number b as second input b=20

Step3: c=a + b c=10+20

Step4: Print c as output c=30

Q Algorithm to find area of rectangle?

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Step1: Take a number input for length length=20

Step2: Take a number input for breadth breadth=30

Step3 area=length\*breadth area=20\*30

Step4 print area area=600

Q Algorithm to find the perimeter of rectangle?

Step1: Take a number input for length length=20

Step2: Take a number input for breadth breadth=30

Step3 perimeter= 2\*(length + breadth) perimeter=2\*(20+30)

Step4 print perimeter perimeter=100

QWrite algorithm to calculate the total price for fencing a rectangular field n times?

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Step1:take input length from user length=10

Step2:take input breadth from user breadth=20

Step3 :take input how many times fencing needs n=5

To be done as n

Step4:price of 1 metre wire price=50

Step5:perimeter=2\*(length + breadth) perimeter=60

Step6: wirelength=perimeter\*n wirelength=300

Step7:totalprice=price\*wirelength totalprice=50\*300

Step8:print totalprice totalprice=15000

Q Write algorithm to calculate then amount for painting walls?

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Step1:Take input number of exterior wall=ew

Step2:Take input number of interior wall=iw

Step3=Take input area of exterior walls

Step4:Add all the areas=>totalearea

Step5: Take input area of interior walls

Step6: Add all the areas=>totaliarea

Step7:Price of exterior wall=price\_ex

Step8: Price of interior wall=price\_in

Step9:totalex=price\_ex\*totalearea

Step10: totalin=price\_in\*totaliarea

Step11:total=totalin+totalex

Step12:print total

QAlgorithm to calculate the total price of based on discount for 4 items?

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Step1 input price of p1,p2,p3 and p4 p1= 1200,p2=300,p3=400,p4=600

Step2:Take input discount dis in percentage dis=10

Step3:Calculate total=p1+p2+p3+p4 total=2500

Step4:discount=total\*dis/100 discount=250

Step5:finalamt=total-discount finalamt=2500-250

Step6:print finalamt finalamt=2250

Q Write an algorithm to display percentage of student based on 5 subjects?

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Step1:take marks of 5 subjects m1,m2,m3,m4,m5 m1=50,m2=60,m3=69,m4=89,m5=89

Step2:calculate perc=m1+m2+m3+m4+m5/5 perc=357/5

Step3:print perc

perc=71

QWrite an algorithm if the area of room is 144sqm .Then how many tiles of size12\*12 sq cm will be required to cover the flooring1m =100cm

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Step1: Take area of field areaf=144\*100\*100

Step2: Take area of tile areatile=12\*12

Step3: nooftiles=areaf /areatile nooftiles=144\*100\*100/12\*12

Step4: print nooftiles nooftiles=10000

Q Write algorithm if there is 20 students who like football and 30 students who like badminton and 10 like both.There are 20 students who are not interested in any game. Calculate total students?

->Step1: enter students who like football studft=20

Step2: enter students who like badminton studbd=30

Step3: enter students who like both studbt=10

Step4: enter students who are not interested in any studnt=20

Step5:total=studft+studbd-studbt+studnt total=20+30-10+20

Step6 print total total=60

Q Convert the time entered in hh,mm and ss into seconds?

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Step1:Take input in hr,min,sec 12:34:56

Step2 sec=hr\*3600+min\*60+sec sec=12\*3600+34\*60+56

Step3 print(sec) sec=45296

QConvert the temp from Celsius into Fahrenheit?

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Step1:take input in Celsius c=32.5

Step2:Fahrenheit=c\*9/5+32 f=32.5\*9/5+32

Step3 print Fahrenheit f=90.5

Q Sum of two digit number?

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Step1:take num as input num=52

Step2 take sum=0 sum=0

Step3 sum=sum+num%10 sum=0+2

Step4 num=num//10 num=5

Step5 sum=sum+num%10 sum=2+5

Step6:print(sum) sum=7

Q Sum of three digit number?

->

Step1:take num as input num=523

Step2 take sum=0 sum=0

Step3 sum=sum+num%10 sum=0+3

Step4 num=num//10 num=52

Step5 sum=sum+num%10 sum=3+2

Step6 num=num//10 num=5

Step7 sum=sum+num%10 sum3+2+5

Step 8 print(sum) sum=10

Q Reverse the 2 digit number?

Step1:take num as input num=52

Step2 take rev=0 rev=0

Step3 rev=rev\*10+num%10 rev=0 \*10+2

Step4 num=num//10 num=5

Step5 rev=rev\*10+num%10 rev=2\*10+5

Step6:print(rev) rev=25

Q Reverse the 3 digit number?

Step1:take num as input num=523

Step2 take rev=0 rev=0

Step3 rev=rev\*10+num%10 rev=0 \*10+3

Step4 num=num//10 num=52

Step5 rev=rev\*10+num%10 rev=3\*10+2

Step6 num=num//10 num=5

Step7 rev=rev\*10+num%10 rev=32\*10+5

Step8 print(rev) rev=325

Q Assign two numbers and swap it using third variable?

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Step 1 :Take first input as x x=10

Step 2 :Take second input as y y=30

Step3 assign third variable z z=0

Step4: initialize z with x z=x

Step5: initialize x with y x=y

Step5: initialize y with z y=z

Step6: print(x) x=30

Step7: print(y) y=10

Q Assign two numbers and swap it without using third variable?

Step 1 :Take first input as x x=10

Step 2 :Take second input as y y=30

Step3 x=x+y x=40

Step4: y=x-y y=10

Step5:x=x-y x=30

Step6: print(x) x=30

Step7: print(y) y=10