Let us c solutions

Unit1.

[A]-

BASICSALARY-Valid variable name

-basic-Valid

Basic-hra-invalid

#mean-invalid

Group.-invalid

422-invalid

Population in 2006-invalid

Over time-invalid

Mindovermatter-valid

FLOAT-invalid

hELLO-valid

queue.-invalid

team’svictory-invalid

Plot # 3-invalid

2015\_DDay-invalid

[B]-

int = 314.562 \* 150-error(Integer is a keyword not used as a variable)

name = ‘Ajay’ ;(invalid character constant)

varchar = ‘3’ ;(no error )

3.14 \* r \* r \* h = vol\_of\_cyl ;(we cannot declare more than one value in lhs)

k = ( a \* b ) ( c + ( 2.5a + b ) ( d + e ) ;(it is not declared explicitly)

m\_inst = rate of interest \* amount in rs ;(we cannot declare spaces in variable)

si = principal \* rateofinterest \* numberofyears / 100 ;(no error)

area = 3.14 \* r \*\* 2 ;(invalid operator)

volume = 3.14 \* r ^ 2 \* h ;(invalid operator)

k = ( (a \* b ) + c ) ( 2.5 \* a + b ) ;(explicitly not declared)

a = b = 3 = 4 ;

count = count + 1 ;(no error)

date = '2 Mar 04' ;( invalid character constant)

[C] Evaluate the following expressions and show their hierarchy.

(a) g = big / 2 + big \* 4 / big - big + abc / 3 ; (abc = 2.5, big = 2, assume g to be a float)

g=2/2+2\*4/2-2+2.5/3;

g=3.833333

(b) on = ink \* act / 2 + 3 / 2 \* act + 2 + tig ; (ink = 4, act = 1, tig = 3.2, assume on to be an int)

On=4\*1/2+3/3\*1+2+3.2;

On=8

(c) s = qui \* add / 4 - 6 / 2 + 2 / 3 \* 6 / god ; (qui = 4, add = 2, god = 2, assume s to be an int)

S=4\*2/4-6/2+2/3\*6/2;

S=-1

(d) s = 1 / 3 \* a / 4 - 6 / 2 + 2 / 3 \* 6 / g ; (a = 4, g = 3, assume s to be an int)

S=1/3\*4/4-6/2+2/3\*6/3;

S=-3

[F] What would be the output of the following programs:

(a)- 0 2 0.000000 2.000000

(b) a = 0 b = -6

(c)error we need to declare int instead of float .

(d) nn

nn

nn /n/n nn/n

(e)normal question

(f)process terminated

[G] Pick up the correct alternative for each of the following questions:

(a) Dennis Ritchie

(b)All the above

(c) A compiler

(d) Both fractional and exponential forms

(e) 1 character

(f) Both (1) and (2)

(g) All the above

(h)32767

(i) Both (2) & (3) above

(j) 3 + a = b ;

(k) / or \*, - or +

(l) 6.6 / a

(m) ()

(n) Each new C instruction has to be written on a separate line

(o)2

(p) 0

(q)32768(depend upon compiler)

(r)6

(s) is used first

(t) At least one digit

(u) 1 character

(v) All the above

(w) Keywords can be used as variable names

(x) variable names on right side of =

(y) \* / + -

(z) 0.2857

[H] Write C programs for the following:

(a)

#include<stdio.h>

int main( ) {

int sa,da,hr,to;

printf("enter salary");

scanf("%d",&sa);

da=.4\*sa;

hr=.2\*sa;

to=da+hr+sa;

printf("%d",to);

}

(g)

#include<stdio.h>

int main( ) {

int n,sum=0,i,temp;

printf("enter no.");

scanf("%d",&n);

for(i=1;i<=5;i++)

{

temp=n%10;

sum=sum+temp;

n=n/10;

}

printf("%d",sum);

}

(h)

#include<stdio.h>

int main( ) {

int n,rev=0,i,t;

printf("enter no.");

scanf("%d",&n);

for(i=1;i<=5;i++)

{

t=n%10;

rev=rev\*10+t;

n=n/10;

}

printf("%d",rev);

}

(i)

#include<stdio.h>

int main( ) {

int n,sum=0,i,t;

printf("enter no.");

scanf("%d",&n);

t=n%10;

sum=sum+t;

n=n/1000;

sum=sum+n;

printf("%d",sum);

}

Unit2-

[A]

(a)b will contain some garbage value and c as it is.

(b)300 200

(c)10 20

(d)3

(e)x and y are equal---

(f)x=10 y=10 z=0 (z is 0 because condition is wrong)

(g)0 50 0-------

(h)c is wow

(i)a=15 b=15 c=0------

(j)1 15 1

[B]

(a)to compare this use == operator

(b)10 10

(c) ascii value of X is smaller than that of x

(d)error in then

(e)error because of brackets

(f)error we cannot compare like this

(g)error we cannot write elseif like this we need to give space between them

(h)error in then

(i)ampersand sign error

[c]

j-find the slope m1 and m2 and equate them if the condition is true then they are on same straight line otherwise not.

M1=(y2-y1)/(x2-x1)

M2=(y3-y2)/(x3-2)

If(m1==m2)

[D]

(a) Dean of students affairs

(b) Let us C

(d)1 1

(e)Bennarivo

(f)40

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[c]

(a)no output but it runs

(b)infinite loop prints 1

(c)2 5

(d)infinite loop prints A

[d]

(a)initialization,condition,updation

(b)in the absence of parentheses arthimetic, relational,assignment operators are used

(c)for loop

(d)at least once

(e)initialization,executing then testing

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[A]

(a)heart

i thought..

(b)i am in case 3

(c)we can use conditions in switch stmt (default case run)

(d)all prints

(e)trapped

(f)it runs very well prints normally

(g)all prints because break stmt is not there

[B]

(b)we cannot initialise conditions in switch stmts

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[A]

(a)infinite loop

(b)infinite

(c)100

(d)we cannot multiply in actual argument this value is not pass in function

[B]

(a)12 12

(b)

smallest number

#include<stdio.h>

main( ) {

int r,s,a;

printf("enter ages of 3 friends");

scanf("%d %d %d",&r,&s,&a);

if(r<s && r<a){

printf("r is smallest");

}

if(s<r && s<r){

printf("s is smallest");

}

if(a<r && a<r){

printf("a is smallest");

}

}

absolute value

#include<stdio.h>

main( ) {

int n;

printf("enter no.");

scanf("%d",&n);

if(n<0)

{

n=n\*-1;

printf("%d",n);

}

else

printf("%d",n);

}

coordinate,center of circle,radius

find whether it lies inside circle,outside circle and on the circle

we can find this by using the formula

p=(sqrt((x-a)\*(x-a)+(y-b)\*(y-b)))

if(p>r)

outside circle

if(p<r)

inside circle

else

on the circle

point lies on x axis,y axis or at origin

if(x==0 && y==0)

printf("on origin");

if(x==0 && y!=0)

printf("point lies on x axis");

if(x!=0 && y==0)

printf("point lies on y axis");

In a town, the percentage of men is 52. The percentage of total literacy is 48. If total percentage of literate men is 35 of the total population, write a program to find the total number

of illiterate men and women if the population of the town is 80,000

totmen = (52.0/100.0) \* totpop;

printf("total no of men in the town is: %1d”,totmen);

totlit = (48.0/100.0) \* totpop;

printf("\n total no of literate people is: %1d”,totlit);

litmen = (35.0 /100.0) \* totpop;

printf("\n total no of literate men is: %1d”,litmen);

totlitwomen = totlit - littnen;

totwomen = tot pop - totmen;

ilitmen = totmen - totlitwomen;

ilitwomen = totwomen - totlitwomen;

10.50,100 rs. note

#include<stdio.h>

main(){

int t,n,sum=0;

printf("enter amount");

scanf("%d",&n);

t=n/100;

sum=sum+t;

printf("%d=100rs.",sum);

n=n%100;

t=n/50;

printf("%d=50rs",t);

n=n%50;

t=n/10;

printf("%d=10rs.",t);

}

main(){

char ch;

printf("enter any char");

scanf("%c",&ch);

if(ch>65 && ch<90)

{

printf("capital");

}

if(ch>97 && ch<122)

{

printf("small");

}

}