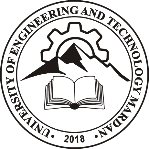
**All LABs cods from 1----15**



**SUBJICT: pf**

**By**

**Tayyeb ullah**

**Section: B**

**Reg. # 20MDElE21**

**Instructor**

**Sir Jawad**

**Department of Electrical Engineering,**

**University of Engineering and Technology**

#include <stdio.h>

#include cconio. h>

int main ()

4

int lenght-4, breadth-53

int area-20;

printf("enter lenght and breadth of a rectangular")

scanf("8dd",8lenght , 8breadth)

area-lenght "breadth

printf("area of rectangular : %d, area")

getch()

18

1#include<stdio . h>

2 #include<conio.h>

3 #define PI 3.147

4 in main(O

float radius=Cj

float area-0, circumf=0j

printf("Enter the radius of the Circle")

scanf("f", &radius)

areaP radius radiusS

circumf = 2 \* PI \* radiusj

printf("\nArea of the Circle : \*f\n area)

13 printf("Circumference of the Circle : f", circumf) s

getch()j

11

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Lab #2

Task 1:

**#include <stdio.h>**

**int main()**

**{**

**int num1, num2, sum;**

**printf("Enter first number: ");**

**scanf("%d", &num1);**

**printf("Enter second number: ");**

**scanf("%d", &num2);**

**sum = num1 + num2;**

**printf("Sum of the entered numbers: %d", sum);**

**return 0;**

**}**

Task 2:

#include <stdio.h>

int main()

{

float length, width, area;

/\*

\* Input length and width of rectangle

\*/

printf("Enter length of rectangle: ");

scanf("%f", &length);

printf("Enter width of rectangle: ");

scanf("%d", &width);

/\* Calculate area of rectangle \*/

area = length \* width;

/\* Print area of rectangle \*/

printf("Area of rectangle = %f sq. units ", area);

return 0;

}

Lab#3

task 1:

#include <stdio.h>

int main() {

double num;

printf("Enter a number: ");

scanf("%lf", &num);

if (num <= 0.0) {

if (num == 0.0)

printf("You entered 0.");

else

printf("You entered a negative number.");

} else

printf("You entered a positive number.");

return 0;

}

Task :2

#include <stdio.h>

void main()

{

int num1, rem1;

printf("Input an integer : ");

scanf("%d", &num1);

rem1 = num1 % 2;

if (rem1 == 0)

printf("%d is an even integer\n", num1);

else

printf("%d is an odd integer\n", num1);

}

Task:3

**#include <stdio.h>**

**int main()**

**{**

**int sidea, sideb, sidec; //are three sides of a triangle**

**/\***

**\* Reads all sides of a triangle**

**\*/**

**printf("Input three sides of triangle: ");**

**scanf("%d %d %d", &sidea, &sideb, &sidec);**

**if(sidea==sideb && sideb==sidec) //check whether all sides are equal**

**{**

**printf("This is an equilateral triangle.\n");**

**}**

**else if(sidea==sideb || sidea==sidec || sideb==sidec) //check whether two sides are equal**

**{**

**printf("This is an isosceles triangle.\n");**

**}**

**else //check whether no sides are equal**

**{**

**printf("This is a scalene triangle.\n");**

**}**

**return 0;**

**}**

Lab #4

task :1

sinclude cstdio.hoP

int main)

int 4, 8, C

printf("Enter three numbers: )

scanf("d sd , , 3, aC)

if (A - A p C)

printf("d is the largest mmber., 4)

else if ( A B C)

prine4 is the largest mumber.", 3)

else

prine(%4 is the largrst mmber, )

return s

Task:2

#include cstdlo.h

int

main()

int phy, ches, bio, neth, con

+1oat pers

nput marks of ftue subjects froe user

printf("Enter five subjects marks: ") i

scanf("utddd', spty, &chew, sbio, 8neth, Bconp)

/ Caieulate percentae

per (phy chem\* bionathcop) 5.ej

printf("Percentage a N.2f1n" per)s

/Find grode occord ing to the percentage

1(per 90)

printf("Grade N")

else 1f(Per - 10)

printf("Grede 8")

else (per 70)

pr intf("Grede C")

else (per - 60)

print("Grale 0")

else f (per 40)

print("Grade E")

else

printf("Grade F")

return 0

Lab#5

Task:1

#includecstdio.h>

int aain)

int is

for (i-13i-7si+)

6

printf(mohamad khetabln")

printf("20DELE214")

printf(n")

12

4

Lab#6

task :1

eincludecstdio.h>

#incladecconlo.h>

int sain0

4

int ,bs

int ep

printf(.Additienin 2. Subtractionin 3.ltiplicationin 4.Divisienin")s

printf(Enter the values of & b ")

scanf("d se,la,8o)

printf("Enter your Cheice 1 )

scanf( lop)

sitch(op)

east

Printf("Sum o

and

break

case 2 t

printf(ference of Nd and d in sab,a-b)

brek

case 1

printf(ultiplication of Sd and Nd is : N,a,b, a"b)s

break

case 4

printf(oivisiom of tue nbers 1s s4"a/)»

break

default

printf( Enter Your Correct Cholce.")

resks

returs 8

Task:2

#inciude macnn

include <stdio.h>

print("Enter b,Cdiscriminant, rootl, root2, realPart, imagPart;

scanf("X1f 1f 1f°, &a, 8b, &c)

int

discriminant b b 4\*ac

condition

real and different roots

if (discriminant e) (

rootl (-b sqrt(discriminant) ) (2 a)

oot b sqrt(discriminant)) (2a)

prantr(reooti X.2lt and root2 \* \*.2it root root2)

condition for real and equal roots

else if (discriminant e)

root root2 -b/ (2 a)

printf("root1 root2 -%.21f;" rootl)s

1froots are not redt

else (

realPart-b (2 a)s

imagPart sqrt(-discriminant) (2 a)

printf("root1 %.21f+%. 21fi and root2 %. 2f-%.2f1", realPart, imagPart, realPart, imagPart) j

return 0

Task#3

#include <stdio.h>

#include <stdil.n?

#include <math.h?

int main0

float area, radius, s1,52,53, base,height, sP

int choicej

printf("1. Area of Circle\n")

printf( 2. Area of Triangle (Base and Height)\n")

printf("3. Area of Triangle (All three Sides) \n")3

printf("Select your Choice\n");

canf ("%d",&choice);

switch(choice)

case

printf("You have chosen Area of Circle\n")s

printf("Enter the radius\n")5

scanf("f" ,&radius)s

area-3.14tradius radius;

printf("Area of Circle is %.2f\n", area)

Dreak

Case

printf("You have chosen Area of Triangle (Base and Height) \n")5

printf(Enter base and height\n")

Scanf(zt ,&base, &height) ;

area=(base "height)/2;

printf("Area of Triangle is %.2f\n", area)

Dreak

3

case

printf("You have chosen Area of Triangle (All three Sides) \n")3

printf(Enter values of all three sides\n"

scanf(s4\*f\*,8s1,&s2,8s3) ;

sp=(s1+52+53)/2

area-sqrt (sp\* (sp-s1)\*(sp-s2)\*(sp-s3))s

printf("Area of Triangle i5 .2f\n",area);

break;

Aafa

1t

Lab#7

task:1

include cstdio.h>

int main()

int num, count 1, fact 1:

printf("Enter a nunber to tind factorial ln")

scanf ("d", inum)

0

while (count num

fact fact count: toct t count

count+

printf("Factorial of td is tdin", nn, fact)

return 0

**Task 2: Convert the given for-loop code to while-loop code.**

// a program to show the nested for loops

#include <stdio.h>

int main()

{

// variables for counter…

int i, j;

// outer loop, execute this first...

// for every i iteration, execute the inner loop

for(i=15; i>0;)

{

// display i==

printf("%d==", i);

// then, execute inner loop with loop index j,

// the initial value of j is i - 1

for(j=i-1; j>0; )

{

// display #

printf("#");

// decrement j by 1 until j>10, i.e j = 9

j = j - 1;

}

// go to new line, new row

printf("\n");

// decrement i by 1, repeat until i > 0 that is i = 1

i = i - 1;

}

return 0;

}

Lab#8

Task:1

"run this proyran using the console paner or add your oun get

int nain(

int number, totpos-4,totneg-e, tot zero-j

char ch'y'T

11 dof

printf("nd nter the number")

scanf(",knumber)

if (number 0)

tetpos

if (numtier ce)

totneg

ifnumbere)

totzere

(stdin)i

printf("nDo you wish to cont inue(y/n): ")

Scanf(e",Bch)

while(ch'y')

printf" mlotal nmber of positive unbers u, totpes)

printf("nfotal nnber of nrgat ive numbers dr, totneg)i

printf("ntotal nmber of erors d", totzere)

16

I7

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19

return e

3

Campile LogDebugFind Reults ] Cese

Task:2

main.c

#include <stdio.h>

int main()

int 8,b,\*,y,tgcd,lcm

printf( "nohamad khetab...2010ELE214\n")

printf("enter the 1st number\enter the 2nd number\n")i

Scanfd M ,x,6y)s

a

bys

13

while (b 1-8)

tbj

15

b a b

a t

6

gcd

lc (x"y)/gcdl

printf("greatest comon divisor of d and dn",M,Y,gcd)

printf("least comnan multiple of d and Sdin",xy, lor)i