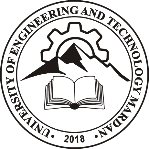
**All LABs cods from 1----15**



**SUBJICT: pf**

**By**

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**Section: B**

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#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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4

15

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

Lab#9

task:1

1 sinclude <stdio.h

2 int nain(0

3

printf("size of int data type

printf("size of float data type t 4 ', sizeof(float));

printf("size of double data type \t 4 w',sizeof(double));

printf("size of char data type It d n', sizeof(char));

printf("size of long data type It 4 w', sizeof(long);

It 34 In',sizeof(int);

4

task:2

1 #include <stdio.h>

2 #include <conio.h>

3 int nain()

4(

char ch;

printf("enter your numberIn");

scanf("%e",8ch);

5

8

printf("ASCII value of c d",ch, ch);

1)

9

Task:3

Task 3: write acprogram to convert a lower case alphabet to uppercase and vice versa using

both ASCl value

1 #include cstdio.h>

2 #include <string.h>

3 int main()

4

char ch[180]

int

printf("enter the string in lower caseln");

gets(ch)

printf("string in louercase = s In",ch)

for(i-0; ch[i]ji++)

10

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if(ch[i)pa97 & ch[i]ee122)

ch[iJ-32

13

14

printf("string in upperase s In",ch)

return 8

15

16

17

Lab#10

task:1

1 #include <stdio.h>

2 #include <conio.h>

3 int main ()

49

int x,y

printf("enter the value of X In");

scanf( "%d",8x);

printf("enter the value of y In");

scanf("d",&y);

int temp =x;

18

11

x=y;

y=temp;

printf("after swapping x=d,y=kd", x,y);

return

Task:2

3 int dissplay(int a);

4 int main()

5

int a,c;

printf("enter the number In");

scanf("%d",åa);

c display(a);

printf("c d",c);

return 8;

18

11

12

13 int display(int a)

14

int nu;

nu=(a);

return nu

15

16

17

18

Lab#11

taak:1

1#include <stdio.h>

include <stdlib.h>

3 Pohamod thetob Zhnon 20DELE224

4 int bigest(int, int) ;// funection prototype

5 int nain0

inta

printf("Enter 2 integer numbersin");

scanf ("%4 4 ,Aa,b");

l function coll biggest(a,b);

printf("beggest of d and Kd is: da', 8b, bigest(la,b);

return

1

13

14

15 / function definition

16 int bigest(int x,int y)

17

18

turn(oythcy)}s

19

task:2

1 tinclude cstdio.h

2 tinclude <stdlib.ho

3 Nohamad khe tob Zhm 20/DELE214

4int nain)

float celsius, fahrenheit;

Ireods tempreture in fahrenheit

printf("n enter tepreture in fahrenteit: ")

sxanf(%F",fahrenheit)

fahrenheit tocelsius coverstion farula

celsius-Fahrenheit-33 5/9

print the result

printf("ncelsiuse.3f",celsius)j/. 3f naes corect to 3 decinal placess

12

Task:3

1 tinclude stdio.h>

2 tinclude <stdlib.h

3/Pohanmad bhetob Zhman 20DELE214

4 int factorial (int nunber)//prototype of function

if(nunberwl)

return nutber factorial(runber-1)

else

return nunber factorial (nunber-1)

2

13 int nain(0

14

printf( 34n,factorial(5))

5

return

1

6

Lab#12

task:1

#include <stdio.h>

#include <conio.h>

int main()

4

int a[5]=(3,4,5,8,6)) i;

for(i-0;i<=4; i++)

printf("d In",a[il);

task:2

Tah the

1\*include <stdio. h>

#include <conio.h>

int main()

int a[1e0], i,n, sum=0;

printf("enter the size of array: n")

scanf( "%4",8n);

printf("enter el ement in array: \n");

for(i 8;ien;i++)

scanf("%d", Ba[i]);

for(i-0;icn; ie\*)

sume-a[i

6

printf("sum of array is Xd", sum);

return ; 1

18

Task:3

1 #include <stdio.h>

2#inc lude cconio.h>

3 int main()

int marks[4][3],maxnark[4], r,c

for(ra®j rcajre)

printf(enter the marks of d student \n", rel)

for(c@jc<3jce\*)

scanf("d",anarks[r][e])

for(re@j re4re+){

maxmarkr]-@

for(cu@je<3;c++){

f(marks[Pite] >maxnark[r])

wmark[r]omarks[r][e]

printf(--------nax marks---------\n");

for(rm@rc4jre+){

printf("max mark of student Xd is d In",(re1), maxmark[r])

printf("THE ENDn")

Lab#13

task:1

#include <stdio.h

include cstdlib. h>

d hetab (zhman)

zovDELEZ14

int main)

20DELE214")

printf(mohammad khetab zhman

int highamid, n, keyarrayt1e

printt(enter number of eleaents

scant integers",m)s

for(- en tegers",m)s

scanf("Nd.Barray[4])s

printi(enter value to Find")

scanf ("d",8key)

Low-d

high n

id (low high)/2s

hile (lowd-high)

rylmid] ckey )

else if (array[id] w-key )

printf("d found at location Sdin", key, mid+1)

break

else

aghid ih)/2

id-(low high)/2s

i(lowhigh)

printt("Mot found! sd is not present in the 11st\n", key )

return

Task:2

include <iostream

Rohammad khetab zhman

2arDELE214

int search(int arr[], int key, int flag)

int

for (i- s ic keys i)

if(arr[4]j--flag)

return13

mohammad khetab zhman 28DELE214

drive code

int main voi

14

12

printf("mohammad khetab zhman 20DELE214 nin")s

int arr[] -(2,3,4,1e, 40)s

int 1la8

printf(write the key")

scanf("Xd",8flag)

int key-sizeof (arr)/ sizeof(arr[®])s

I function call

int result- search (arr, key, flag) s

(resultw-1)

printf("printf element T not found")

printf("key found at d" result) s

return 0