Ishimwe Amiri

**219005750**

C programming asignment

1. #include<stdio.h>

#include<math.h>

main()

{

int a,b,c,d;

double x1,x2;

printf(“enter a,b and c where ax2+bx+c=0\n”);

scanf(“%d%d%d”,&a,&b,&c);

if((a==0)&&(b==0))

{ printf(“no solution”);

}

else

{

d=b\*b-4\*a\*c;

if(d<0)

{

printf(“no roots”);

}

elseif(d==0)

{

printf(“x1=x2/n”);

x=-b/(2\*a);

printf(“real root is %d”,x);

}

else

{

x1=(-b+ sqrt(d))/(2\*a);

x2=(-b- sqrt(d))/(2\*a);

printf(“root 1 is %d”, x1);

printf(“/nroot 2 is %d”, x2);

}}

retun 0;}

1. #include<stdio.h>

#include<math.h>

main()

{

int a,b,c,d;

printf(“enter a number to be used as multiplication table /n”);

scanf(“%d”,&a);

for(b=1;a<=a;a++)

{

c=b\*a;

printf(“%d\* %d =%d\n”,b,a,c);

}

return 0;

}

1. #include<stdio.h>

main()

{

int a,b,c,d;

printf(“select from menu\n”);

printf(“1. Addition\n”);

printf(“2. Substraction\n”);

printf(“3. Multiplication\n”);

printf(“4. Devision\n”);

printf(“3. Modulus\n”);

printf(“enter your choice:\n”);

scanf(“%d”,&a);

switch(a)

{

case 1:

printf(“enter your two numbers:”);

scanf(“%d/h%d”,&c,&d);

d=b+c;

printf(“result: %d”,d);

break;

case 2:

printf(“enter your two numbers:”);

scanf(“%d/h%d”,&c,&d);

d=b-c;

printf(“result: %d”,d);

break;

case 3:

printf(“enter your two numbers:”);

scanf(“%d/h%d”,&c,&d);

d=b\*c;

printf(“result: %d”,d);

break;

case 4:

printf(“enter your two numbers:”);

scanf(“%d/h%d”,&c,&d);

d=b/c;

printf(“result: %d”,d);

break;

case 5:

printf(“enter your two numbers:”);

scanf(“%d/h%d”,&c,&d);

d=b%c;

printf(“result: %d”,d);

break;

default:

printf(“unlisted selection”);

}

return 0;

}

1. #include(studio.h)

main()

int max(int a,int b,int c);

int min(int a,int b,int c);

{

int a,b,c;

printf(“enter three numbers: “);

scanf(“%d%d%d”,&a,&b,&c);

printf(“the largest number is: %d“,max(a,b,c));

printf(“the smallest number is: %d“,min(a,b,c));

return 0;

}

int max(int a,int b,int c)

{

int max=0;

if((a>b)&&(a>c))

{

max=a;

}

elseif((b>a)&&(b>c))

{

max=b;

}

else

{

max=c;

}}

int min(int a,int b,int c)

{

int min=0;

if((a<b)&&(a<c))

{

min=a;

}

elseif((b<a)&&(b<c))

{

min=b;

}

else

{

min=c;

}}

1. #include<stdio.h>

main()

{

int a,b;

for(a=7;a>=1;a--)

{

for(b=1;b<=a;b++)

{

printf(“\*”);

}

printf(“\n”);

}

return 0;

}

1. include<stdio.h>

main()

{

int a,b,c;

for(a=1;a>=5;a++)

{

for(b=1;b<=2\*a-1;b++)

{

printf(“\*”);

}

printf(“/n”);

}

for(a=5;a<=1;a--)

{

for(b=1;b<=2\*a-1;b++)

{

printf(“\*”);

}

printf(“/n”);

}

return 0;

}

1. #include<stdio.h>

main()

{

int a,b;

for(a=1;;a++)

{

printf(“enter positive number”);

scanf(“%d\n”,&b);

if(b<0)

{

break;

}

}

return 0;

}

1. #include<stdio.h>

maim()

{

int a,b,d=1,array[4][4];

for(a=0;a<=4;a++)

{

for(b=0;b<=4;b++)

{

scanf(“%d”,array[a][b]);

}

}

for(a=0;a<=4;a++)

{

for(b=0;b<=4;b++)

{

printf(“%d”,array[a][b]);

}

}

return 0;

}