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Dept-Information Technology

2nd year

Subject-Programming Lab

ROLL-2021ITB060.

Sem-3rd

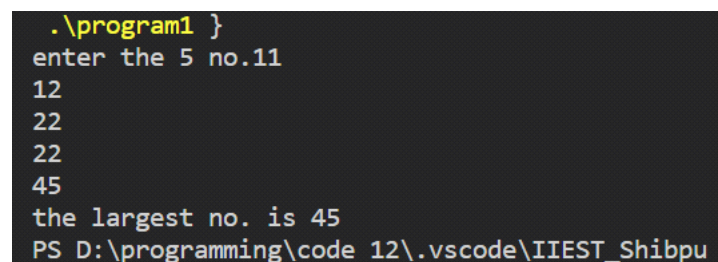
// 1.WAP to input 4 numbers and find the largest one by using ladder of if -else array.

```
#include<stdio.h>
int main()
{
    int a,b,c,d,e;
    printf("enter the 5 no.");
    scanf("%d%d%d%d%d",&a,&b,&c,&d,&e);

    if(a>=b && a>=c && a>=d && a>=e){
        printf("the largest no. is %d\n",a);
    }

    else if(b>=a && b>=c && b>=e && b>=d){
        printf("the largest no. is %d\n",b);
    }
    else if(c>=a && c>=b && c>=d && c>=e){
        printf("the largest no. is %d\n",c);
    }
    else if(d>=a && d>=b && d>=c && d>=e){
        printf("the largest no. is %d\n",d);
    }
    else if(e>=a && e>=b && e>=c && e>=d){
        printf("the largest no. is %d\n",e);
    }

    return 0;
}
```



```
.\program1 }
enter the 5 no.11
12
22
22
45
the largest no. is 45
PS D:\programming\code 12\.vscode\IIEST_Shibpu
```

//2.// to to convert years to days ,months,minutes,seconds,hours.

```
#include<stdio.h>
int main()
{
    long long int a,num,i=0;
    printf("Enter the no. of years.");
    scanf("%d",&a);
    printf("enter 1 to convert years to months.\n");
    printf("enter 2 to convert years to day.\n");
}
```

```

printf("enter 3 to convert years to hours.\n");
printf("enter 4 to convert years to minutes.\n");
printf("enter 5 to convert years
{
case 1:
printf("there are %d months\n",a*12);
break;
case 2:
printf("there are %d days\n",a*365);
break;
case 3:
printf("there are %d hours\n",a*365*24);
break;
case 4:
printf("there are %d minutes\n",a*365*24*60);
break;
case 5:
printf("there are %d seconds\n",a*365*24*60*60);
break;
}

return 0;
}

```

```

PS D:\programming\code 12\.vscode\IIEST_Shibpur\programming lab> cd "d:\programming\code 12\.vscode\IIEST_Shibpur\programming lab\" ; if ($?) { gcc program1.c -o program1 } ; if ($?) { .\program1 }
Enter the no. of years.2
enter 1 to convert years to months.
enter 2 to convert years to day.
enter 3 to convert years to hours.
enter 4 to convert years to minutes.
enter 5 to convert years to seconds.
2
there are 730 days
PS D:\programming\code 12\.vscode\IIEST_Shibpur\programming lab> cd "d:\programming\code 12\.vscode\IIEST_Shibpur\programming lab\" ; if ($?) { gcc program1.c -o program1 } ; if ($?) { .\program1 }
Enter the no. of years.2
enter 1 to convert years to months.
enter 2 to convert years to day.
enter 3 to convert years to hours.
enter 4 to convert years to minutes.
.\vscode\IIEST_Shibpur\programming lab\" ; if ($?) { gcc program1.c -o program1 } ; if ($?) { .\program1 }
Enter the no. of years.2
enter 1 to convert years to months.
enter 2 to convert years to day.
enter 3 to convert years to hours.
enter 4 to convert years to minutes.
enter 5 to convert years to seconds.
3
there are 17520 hours

```

enter 5 to convert years to seconds.

4

there are 1051200 minutes

```
PS D:\programming\code 12\.vscode\IIEST_Shibpur\programming lab> cd "d:\pro  
e 12\.vscode\IIEST_Shibpur\programming lab\" ; if ($?) { gcc program1.c -o  
if ($?) { .\program1 }
```

Enter the no. of years.2

enter 1 to convert years to months.

enter 2 to convert years to day.

enter 3 to convert years to hours.

enter 4 to convert years to minutes.

enter 5 to convert years to seconds.

5

there are 63072000 seconds

//write a program to print stars of different patterns

```
#include <stdio.h>
int main()
{
    int a;
    printf("press 1 to print starts in full screen\n");
    printf("press 2 to print starts in half screen\n");
    printf("press 3 to print starts in top 3 lines in screen\n");
    printf("press 4 to print starts in nottom 3 lines in screen\n");
    printf("press 5 to print starts in right angled triangle in screen\n");
    printf("press 6 to print starts in isosceles triangle screen\n");
    printf("press 7 to print starts in circles screen\n");
    printf("press 8 to print starts in diamond blank screen\n");
    scanf("%d", &a);
    switch (a)
    {
        case 1:
            for (int i = 0; i < 24; i++)
            {
                for (int j = 0; j < 80; j++)
                {
                    printf("*");
                }
            }
            break;

        case 2:
            for (int i = 0; i < 24; i++)
            {
                if (i <= 12)
                {
                    for (int j = 0; j < 80; j++)
                    {
                        printf("*");
                    }
                    printf("\n");
                }
                else
                {
                    printf("\n");
                }
            }

            break;

        case 3:
```

```

for (int i = 0; i < 24; i++)
{
    if (i <= 3)
    {
        for (int j = 0; j < 80; j++)
            printf("*");
        printf("\n");
    }
    else
    {
        printf("\n");
    }
}
break;

case 4:
for (int i = 0; i < 24; i++)
{
    if (i > 21)
    {
        for (int j = 0; j < 80; j++)
            printf("*");
        printf("\n");
    }
    else
    {
        printf("\n");
    }
}
break;

case 5:
for (int i = 0; i < 24; i++)
{
    for (int j = 0; j < i; j++)
    {
        printf("*");
    }
    printf("\n");
}
break;

case 6:
for (int i = 1; i <= 24; i++)
{
    for (int j = 1; j <= 24 - i; j++)
    {
        printf(" ");
    }
    for (int k = 1; k <= i; k++)
    {
        printf("*");
    }
}

```

```

    }
    for (int k = 1; k < i; k++)
    {
        printf("*");
    }

    printf("\n");
}

break;
case 7:
int radius;

printf("Enter radius (less than or equal to 10):\n");
scanf("%d", &radius);

//centre at 20,20
char circle [41][41];
for (int i = 0; i < 40; i++)
{
    for (int j = 0; j < 40; j++)
    {
        int dist = abs(20 - i) * abs(20 - i) + abs(20 -
j) * abs(20 - j);

        if ((dist <= (radius * radius + 5)))
        {
            circle[i][j] = '*';
        }
        else
        {
            circle[i][j] = ' ';
        }
    }
}

for (int row = 0; row < 40; row++)
{
    for (int col = 0; col < 40; col++)
    {
        printf("%c ", circle[row][col]);
    }

    printf("\n");
}
break;
case 8:

    for (int i = 1; i <= 24; i++)

```

```

{
    for (int j = i; j <= 24; j++)
    {
        printf("*");
    }

    for (int j = 1; j <= (2 * i - 2); j++)
    {
        printf(" ");
    }

    for (int j = i; j <= 24; j++)
    {
        printf("*");
    }

    printf("\n");
}

// Loop to print lower half of the pattern
for (int i = 1; i <= 24; i++)
{
    for (int j = 1; j <= i; j++)
    {
        printf("*");
    }

    for (int j = (2 * i - 2); j < (2 * 24 - 2); j++)
    {
        printf(" ");
    }

    for (int j = 1; j <= i; j++)
    {
        printf("*");
    }

    printf("\n");
}

break;
}

return 0;
}

```


1

0, Col 14 Spaces: 4 UTF-8 CRLF C Go Live Win32 Prettier

[illegible]

```

program1 } ; if ($?) { .\program1 }
press 1 to print starts in full screen
press 2 to print starts in half screen
press 3 to print starts in top 3 lines in screen
press 4 to print starts in nottom 3 lines in screen
press 5 to print starts in right angled triangle in screen
press 6 to print starts in isosceles triangle screen
press 7 to print starts in circles screen
press 8 to print starts in diamond blank screen
3
*****
*****
*****
*****

```

```

ogram1 } ; if ($?) { .\program1 }
press 1 to print starts in full screen
press 2 to print starts in half screen
press 3 to print starts in top 3 lines in screen
press 4 to print starts in nottom 3 lines in screen
press 5 to print starts in right angled triangle in screen
press 6 to print starts in isosceles triangle screen
press 7 to print starts in circles screen
press 8 to print starts in diamond blank screen
4
*****
*****
*****
*****

```

6

```
PS D:\programming\code 12\.vscode\IIEST_Shibpur\programming lab>
```

```
PS D:\programming\code 12\.vscode\IIEST_Shibpur\programming lab>
```

[illegible]

press 8 to print stars in diamond blank screen

7

Enter radius (less than or equal to 10):

9

```

    * * * * *
  * * * * * * * *
* * * * * * * * *
 * * * * * * * * *
  * * * * * * * *
    * * * * * * *
      * * * * * *
        * * * * *
          * * * *
            * * *
              * *
                *

```

