SWT 11022 PRACTICAL FOR FUNDAMENTALS OF PROGRAMMING

DEPARTMENT OF ICT FACULTY OF TECHNOLOGY SOUTH-EASTERN UNIVERSITY OF SRI LANKA

PREPARING AND SUBMITTING THE LAB RECORD - 05

Registration Number – SEU/IS/20/ICT/019

Academic Year – 2020/2021

Date – 2022/11/17

Practical Number – 05_Thursday

Title – Repetition (for loop)

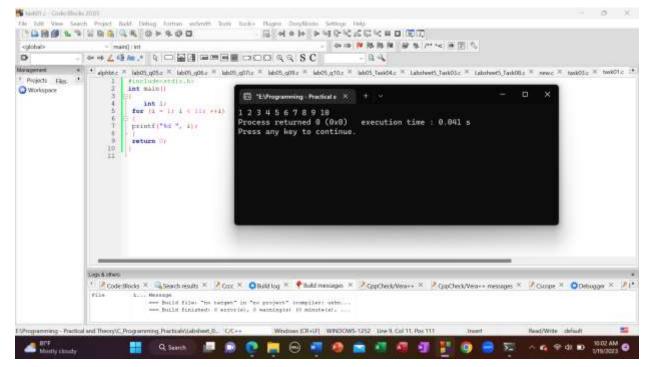
Aim(s) –

• Dealing with for loop and nested for loop

TASKS

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01.
```

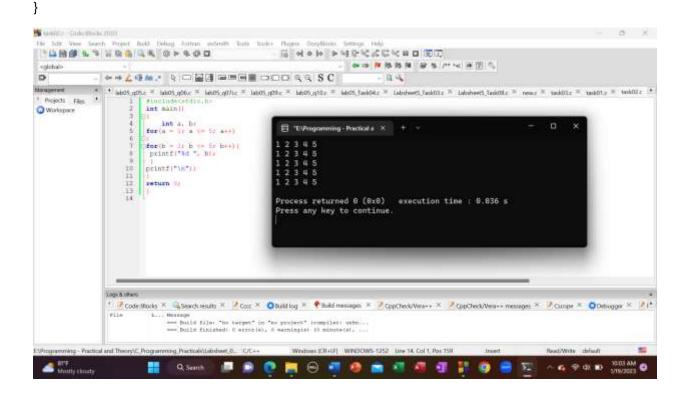
```
#include<stdio.h>
int main()
{
    int i;
    for (i = 1; i < 11; ++i)
    {
    printf("%d ", i);
    }
    return 0;
}</pre>
```



```
02.
#include<stdio.h>
int main()
{
    int a, b;
for(a = 1; a <= 5; a++)
{
    for(b = 1; b <= 5; b++){
        printf("%d ", b);
    }
    printf("\n");</pre>
```

}

return 0;

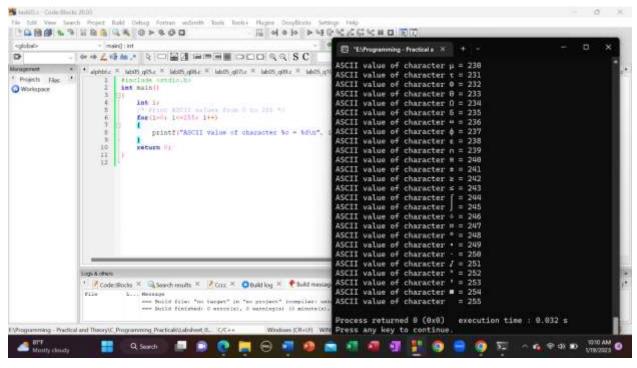


```
03.
#include <stdio.h>
int main()
         int i,sum=0;
         for (i=1;i<100;i+=2)
                   printf("%d ",i);
                   sum=sum+i;
         }
    printf("\nSum is : %d",sum);
return 0;
}
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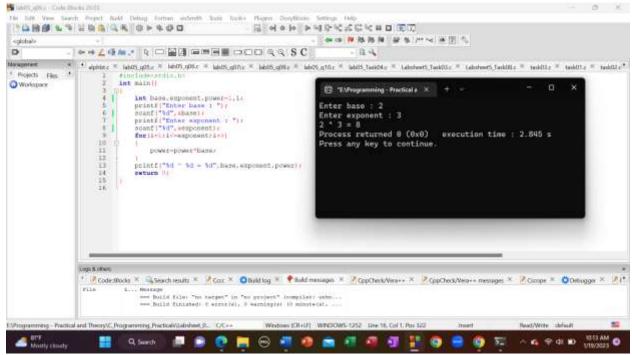
                                                                                           int 1, sus-0;
for (1-1:1:100:1+-0)
                                                                                                                                                                      ☐ *ExProgramming - Practical a × + -
                                                             printf("%d",1);
sum-sum-1;
printf("%d",1);
printf("%d",sum)
11
12
return 0;
13
                                                                                                                                                                 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 5 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99 Sum is : 2580 Process returned \theta (8x8) execution time : 8.632 s Press any key to continue.
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04.
#include <stdio.h>
int main()
{
    int i;
    /* Print ASCII values from 0 to 255 */
    for(i=0; i<=255; i++)
    {
        printf("ASCII value of character %c = %d\n", i, i);
    }
    return 0;
}</pre>
```



```
05.
#include<stdio.h>
int main()
        int i,num,reverse=0;
        printf("Enter any number to find reverse: ");
        scanf("%d",&num);
        for(i=1;i<=8;i++)
        {
                 reverse= (reverse*10)+(num%10);
                 num/=10;
        }
        printf("Reverse = %d",reverse);
        return 0;
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                                                                             int 1.ous,reverse=0;
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counf("%d",enum);
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sum/=10;
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--- Datis finished: 0 error(s), 0 warningis: (0 mirate(s).
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06.
#include<stdio.h>
int main()
{
    int base,exponent,power=1,i;
    printf("Enter base : ");
    scanf("%d",&base);
    printf("Enter exponent : ");
    scanf("%d",&exponent);
    for(i=1;i<=exponent;i++)
    {
        power=power*base;
    }
    printf("%d ^ %d = %d",base,exponent,power);
    return 0;
}</pre>
```



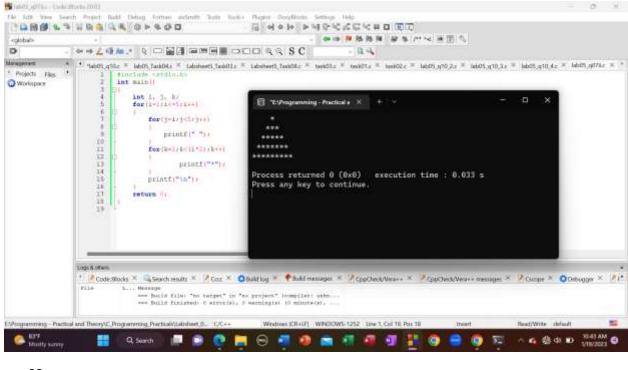
```
07.
#include<stdio.h>
int main()
{
               int i,c;
                printf("enter rows:");
                scanf("%d",&c);
               for(i=1;i<=c;i++){
                                printf("*****\n");
                }
               return 0;
}
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```
#include <stdio.h>
int main()
  int i, j, k;
  for(i=1;i<=5;i++)
    for(j=i;j<5;j++)
    {
      printf(" ");
    }
    for(k=1;k<(i*2);k++)
    {
        printf("*");
    }
    printf("\n");
  }
  return 0;
}
```



08.

#include<stdio.h>

```
printf(" ");
        }
                 }
                 printf("\n");
       }
return 0;
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4 | int rows,1,1;
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                                                                                                  print("*");
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                                                                                       printf("\o");
                                                                 return 0)
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               09.
#include<stdio.h>
int main()
{
       int i,c,r;
        printf("enter rows :");
        scanf("%d",&r);
        printf("enter columns :");
        scanf("%d",&c);
```

```
for(i=1;i<r;i++){
                                                         printf("11111\n");
                                                        for(i=1;i<c;i++){
                                      printf("11111\n");
                  return 0;
}
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enter columns :5
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ment["%d", %r];
printf("enter columns ;");
ment["%d", &c|;
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printf("enter columns s");
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                                   10.
                                                                     a.
 #include <stdio.h>
int main()
{
                  int i, j;
                  for(i=1;i<=5;i++)
                   {
```

```
for(j=1;j<=i;j++)
                                                              printf("%d",i);
                                           }
                                           printf("\n");
                     }
                   return 0;
}
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for[1=1:1==5:1==)
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                                                                                                                                                                                                                                           printf("%d",i)/
                                                                                                                                                                                                                       printf("\n"))
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#include <stdio.h>
int main()
{
                   int i, j;
                   for(i=1;i<=5;i++)
                     {
                                           for(j=i;j<=5;j++)
                                           {
```

```
printf("%d",j);
                                       printf("\n");
                  return 0;
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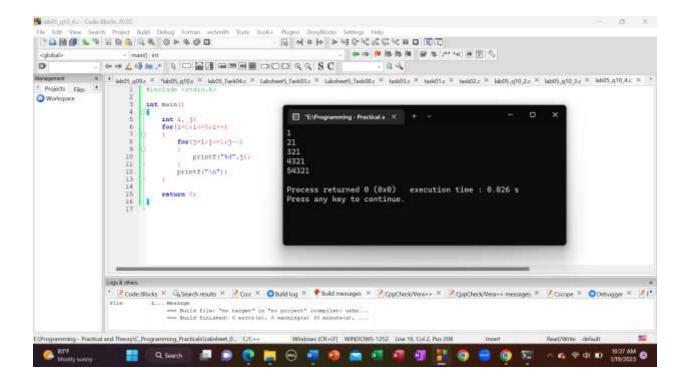
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for(i=1/i(=5/i+1)
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                                                                   c.
#include <stdio.h>
int main()
{
                  int i, j;
                  for(i=1;i<=5;i++)
                   {
                                     for(j=5;j>=i;j--)
                                     {
                                                         printf("%d",j);
                                     }
```

```
printf("\n");
       return 0;
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for(1-1/14-5/1++)
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                                                                                       for(j=5/j=1/j--)
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                                                                                              printf("Nd",j);
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           d.
#include <stdio.h>
int main()
{
        int i, j;
         for(i=1;i<=5;i++)
                  for(j=i;j>=1;j--)
                          printf("%d",j);
                  printf("\n");
        }
        return 0;
```



Discussion: We have discussed the for loop and nested for loop, and now I can code with the nested for loop and for loop statements.

References:

Cfor loop. (n.d.). W3schools.com. Retrieved March 25, 2023, from https://www.w3schools.com/c/c_for_loop.php

Cfor Loop (with examples) – algbly. (n.d.). Algbly.com. Retrieved March 25, 2023, from https://www.algbly.com/Tutorials/C-programming/C-for-loop.html