**May 5 Lab questions**

#1. WAP to swap the values of two variables by using a suitable user

defined function (say SWAP) for it.

Code:

#include <stdio.h>

void swap(int x\_285, int y\_285)

{

    int temp\_285;

    temp\_285=x\_285;

    x\_285=y\_285;

    y\_285=temp\_285;

    printf("The values after swapping are a='%d' and b='%d'\n",x\_285,y\_285);

}

int main()

{

    int a\_285,b\_285;

    printf("Please give the value of your first number\n");

    scanf("%d",&a\_285);

    printf("please provide the value of your second numebr\n");

    scanf("%d",&b\_285);

    printf("===================\n");

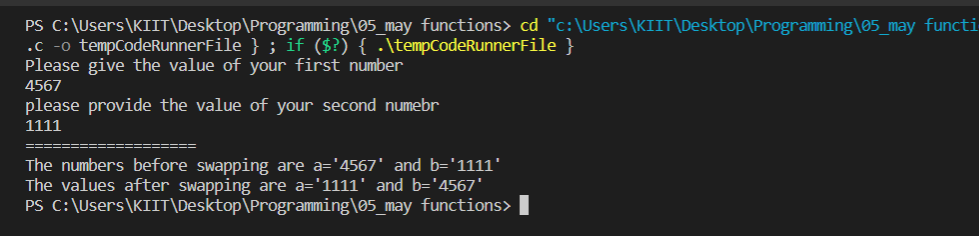
    printf("The numbers before swapping are a='%d' and b='%d'\n",a\_285,b\_285);

    swap(a\_285,b\_285);

    return 0;

}

Output:



#2. WAP to find out n c r factor by using a user defined function for

factorial (say fact).

Code:

#include <stdio.h>

int fact(int f\_285)

{

    int i\_285,n\_285;

    n\_285=f\_285;

    for(i\_285=1;i\_285<f\_285;i\_285++)

    {

        n\_285=n\_285\*(f\_285-i\_285);

    }

    return n\_285;

}

int main()

{

    int n\_285,r\_285,sub\_285,a\_285,b\_285,c\_285,ncr\_285;

    printf("Please provide your n=\n");

    scanf("%d",&n\_285);

    printf("provide your r=\n");

    scanf("%d",&r\_285);

    sub\_285= n\_285-r\_285;

    a\_285=fact(n\_285);

    b\_285=fact(r\_285);

    c\_285=fact(sub\_285);

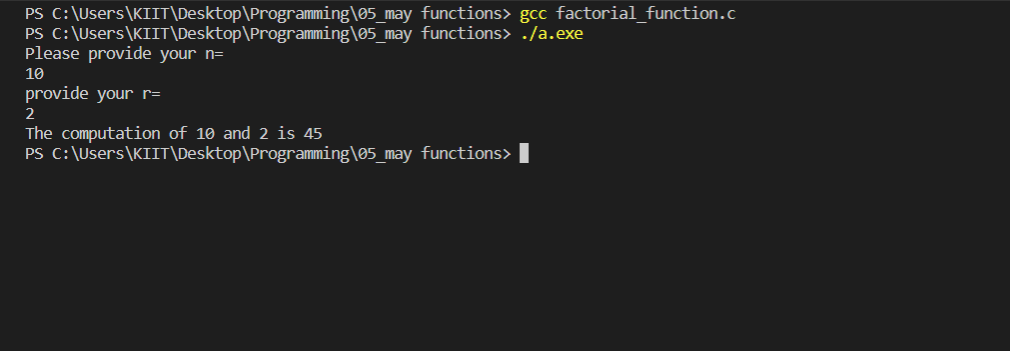
    ncr\_285=a\_285/(c\_285\*b\_285);

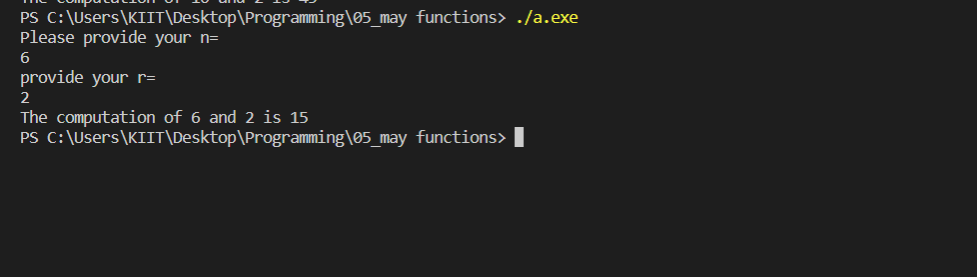
    printf("The computation of %d and %d is %d\n",n\_285,r\_285,ncr\_285);

    return 0;

}

Output:





#3. WAP to test whether a number n is palindrome number or not.

Code:

#include<stdio.h>

int checkPalindrome(int number\_285)

 {

  int temp\_285, remainder\_285, rev\_285=0; temp\_285 = number\_285;

while( number\_285!=0 )

   {

remainder\_285 = number\_285 % 10;

  rev\_285 = rev\_285\*10 + remainder\_285; number\_285 /= 10;

 }

if ( rev\_285 == temp\_285 )

 return 0;

 else return 1;

  }

  int main()

 {

  int number\_285;

  printf("Enter the number: ");

 scanf("%d", &number\_285);

if(checkPalindrome(number\_285) == 0)

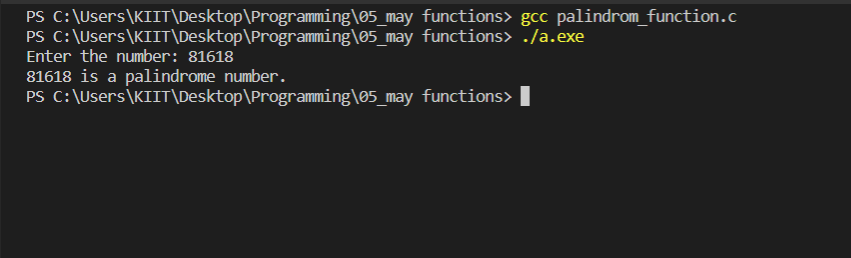
  printf("%d is a palindrome number.\n",number\_285);

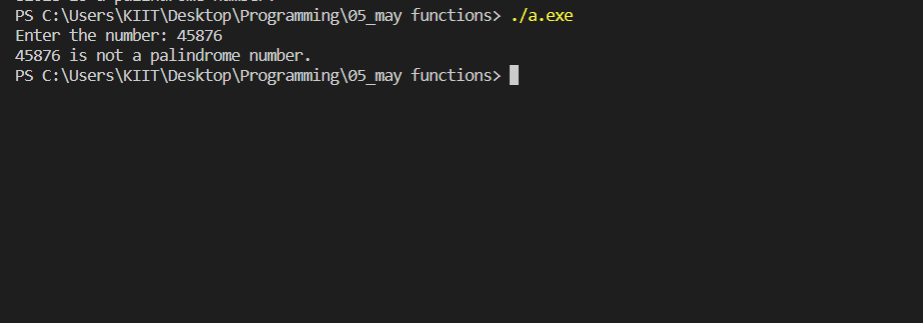
  else printf("%d is not a palindrome number.\n",number\_285);

 return 0;

 }

Output:





#4. WAP to calculate x^y x, y by writing a function (say POWER) for it.

Code:

#include <stdio.h>

int power(int x\_285, int y\_285)

{

    int res\_285=x\_285,i\_285;

    for(i\_285=1;i\_285<y\_285;i\_285++)

    {

        res\_285=res\_285\*x\_285;

    }

    return res\_285;

}

int main()

{

    int x\_285,y\_285,result\_285;

    printf("Please provide the number;\n");

    scanf("%d",&x\_285);

    printf("Please provide the exponent\n");

    scanf("%d",&y\_285);

    result\_285 = power(x\_285,y\_285);

    printf("The result is %d\n",result\_285);

    return 0;

}

Output:

