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**MATRIC NO: 18/SCI01/081**

**COURSE: CSC 206**

**A)i)**

#include<stdio.h>

#include<string.h>

int main()

{

 char str1[100]="Department of Mathematics and Physical Science";

 char str2[100]="CompUter PROGRAMMINg II";

 char \*result;

 result=strncat(str1,str2,8);

 printf(" concatenation result is:%s\n",result);

 return 0;

}

**A)ii)**

#include <stdio.h>

main()

{

char name2[] = "compUter PROGRAMMINg";

convertU(name2);

}

void convertU(char \*str)

{

int x;

for ( x = 0; x <= strlen(str); x++ )

str[x] = toupper(str[x]);

printf("%s\n", str);

}

**A)iii)**

#include <stdio.h>

main()

{

char \*str1 = "Department of Mathematical and Physical Science";

printf("\nThe length of string 1 is %d\n", strlen(str1));

} // end main

**B)i)**

#include<stdio.h>

 #include<string.h>

 int main()

{

 char str1[50]=" I am a Member of COSSA";

 char str2[50]=" I am also a MEMBER of NACOSS";

 char \*result;

 result=strncpy(str2,str1,23);

 printf("result is:%s\n",result);

 return 0;

}

**B)ii)**

#include<stdio.h>

#include<string.h>

int main()

{

 char str1[50]=" I am a Member of COSSA";

 char str2[50]=" I am also a MEMBER of NACOSS";

 char \*result;

 result=strrev(str2);

 printf("result after reverse is:%s",result);

 return 0;

}

**B)iii)**

#include<stdio.h>

#include<string.h>

int main()

{

 char str1[50]=" I am a Member of COSSA";

 char str2[50]=" I am also a MEMBER of NACOSS";

 int \*result;

 result=strncmp(str1,str2,5);

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

 return 0;

}

**C)i)**

#include <stdio.h>

void convertL(char \*);

void convertU(char \*);

main()

{

char name2[] = "Do you really WANT to be a gOOd Programmer?";

convertU(name2);

}

void convertU(char \*str)

{

int x;

for ( x = 0; x <= strlen(str); x++ )

str[x] = tolower(str[x]);

printf("%s\n", str);

}

**C)ii)**

#include <stdio.h>

main()

{

char \*str1 = "Do you really WANT to be a gOOd Programmer?";

char \*str2 = "Then you must LOVE PROgraMMIng";

printf("\nstr1 = %s\n", str1);

printf("\nstr2 = %s\n", str2);

printf("\nstrcmp(str1, str2) = %d\n", strcmp(str1, str2));

printf("\nstrcmp(str2, str1) = %d\n", strcmp(str2, str1));

if ( strcmp(str1, str2) == 0 )

printf("\nDo you really WANT to be a gOOd Programmer? is equal Then you must LOVE PROgraMMIng\n");

if ( strcmp(str1, str2) > 0 )

printf("Do you really WANT to be a gOOd Programmer? is greater than Then you must LOVE PROgraMMIng\n");

if ( strcmp(str2, str1) < 0 )

printf("Then you must LOVE PROgraMMIng is less than Do you really WANT to be a gOOd Programmer?\n");

} // end main

**C)iii)**

#include<stdio.h>

#include<string.h>

int main()

{

 char str1[100]=" Do you really WANT to be a gOOd Programmer";

 char str2[100]=" Then you must LOVE PROgraMMing";

 char str3[100]=" Can you join me program?";

 char e='m';

 char \*result;

 result=strchr(str3,e);

 printf("result is:%s\n",result);

 return 0;

}

**D)a)**

#include <stdio.h>

main()

{

char \*str1 = "NIGERIA ";

char \*str2 = "Nigeria NIGERIA niger";

printf("\nstr1 = %s\n", str1);

printf("\nstr2 = %s\n", str2);

printf("\nstrcmp(str1, str2) = %d\n", strcmp(str1, str2));

printf("\nstrcmp(str2, str1) = %d\n", strcmp(str2, str1));

if ( strcmp(str1, str2) == 0 )

printf("\nNIGERIAis equal NIGERIA\n");

if ( strcmp(str1, str2) > 0 )

printf("NIGERIA is greater than Nigeria NIGERIA niger\n");

if ( strcmp(str2, str1) < 0 )

printf("Nigeria NIGERIA niger is less than NIGERIA\n");

} // end main

**D)b)**

#include<stdio.h>

#include<string.h>

int main()

{

 char str1[50]=" NIGERIA";

 char str2[50]=" Nigeria NIGERIA niger";

 int \*result;

 result=strncmp(str1,str2,5);

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

 return 0;

}

**D)c)**

 #include<stdio.h>

int main()

{

 char str1[] = "NIGERIA";

 char str2[]= "Nigeria NIGERIA niger";

 printf("Original string1 is : %s\n", str1);

 printf("Original string2 is : %s\n", str2);

 printf("NIGERIA after string n set" \

 " : %s\n", strnset(str1,'A',2));

 printf("Nigeria NIGERIA niger after string n set" \

 " : %s\n", strnset(str2,'A',2));

 printf("After string n set : %s\n", str1);

 printf("After string n set : %s", str2);

 return 0;

}