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MATRIC NUMBER: 18/SCI01/010

COURSE CODE: CSC206

REVISION QUESTIONS: PART 4

40)

a) #include<stdio.h>

 int main (){

 int n = 20;

 while(n <= 1000)

 {

 printf("%3d ", n);

 n+=3;

 }

}

b) #include<stdio.h>

int main ()

{

 int i, count;

 for (i = 20; i <= 1000; i += 3)

 {

 printf("%3d ", i);

 }

}

41) a) #include<stdio.h>

 int main()

{

 int b = 1;

 do{

 printf("\n%d", b);

 b++;

 }

 while (b <= 3000);

 return 0 ;

}

b) #include<stdio.h>

 int main()

{

 int b = 1;

 do{

 printf("%d ,", b);

 b++;

 }

 while (b <= 3000);

 return 0 ;

}

42) #include <stdio.h>

 int main(){

 int number, i = 1;

 printf(" Enter the Number:");

 scanf("%d", &number);

 printf("Multiplication table of %d:\n ", number);

 printf("--------------------------\n");

 while (i <= 10)

 {

 printf(" %d x %d = %d \n ", number, i, number \* i);

 i++;

 }

 return 0;

 }

43) #include <stdio.h>

 int main(void)

{

 int a = 0;

 int b = 0;

 int correctInput=0;

 int total\_sum = 0;

 do

 {

 printf("Type the first number : \n");

 scanf("%d", &a);

 printf("Type the second number : \n");

 scanf("%d", &b);

 if(a<b)

 correctInput=1;

 else

 printf("The second number should be bigger than the first one.\n");

 }

 while (correctInput ==0) ;

 while (a <= b) {

 total\_sum += a;

 a++;

 }

 printf("Result : %d \n" , total\_sum);

 return 0;

}

44) #include <stdio.h>

int main() {

 int n, i, flag = 0;

 printf("Enter a positive integer: ");

 scanf("%d", &n);

 for (i = 2; i <= n / 2; ++i) {

 if (n % i == 0) {

 flag = 1;

 break;

 }

 }

 if (n == 1) {

 printf("1 is neither prime nor composite.");

 }

 else {

 if (flag == 0)

 printf("%d is a prime number.", n);

 else

 printf("%d is not a prime number.", n);

 }

 return 0;

}

45) #include <stdio.h>

 void main(){

 int j,i,n;

 printf("Input upto the table number starting from 1 : ");

 scanf("%d",&n);

 printf("Multiplication table from 1 to %d \n",n);

 for(i=1;i<=10;i++)

 {

 for(j=1;j<=n;j++)

 {

 if (j<=n-1)

 printf("%dx%d = %d, ",j,i,i\*j);

 else

 printf("%dx%d = %d",j,i,i\*j);

 }

 printf("\n");

 }

}

46) #include<stdio.h>

int main()

{

 int mark[5]= {1, 2, 3, 4, 5};

 printf("%d, %d, %d, %d, %d", mark[4], mark[3], mark[2], mark[1], mark[0]);

}

47) #include<stdio.h>

int main()

{

 int var;

 int \*p ;

 p= &var;

 printf("\n The value of var is: ");

 scanf("%d",&var);

 printf("\n The value of var is: ");

 scanf("%d",&\*p);

 printf("\n The Address of var is: %p",&var);

 printf("\n The Address of var is: %p",p);

 printf("\n The value of pointer p is: %p",p);

 printf("\n The Address of pointer p is: %p",&p);

 return 0 ;

}

48)

49a) #include<stdio.h>

#include<string.h>

int main()

{

 char str1[ ]=" are you a NIGERIA";

 char str2[ ]=" I come from Niger NIGERIA ";

int \*result;

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

 {

printf("str1 and str2 are equal");

 }

 else {

 printf("str1 and str2 are different");

 }

 return 0;

}

b) #include<stdio.h>

#include<string.h>

int main()

{

 char str1[100]=" are you a Nigerian";

 char str2[100]=" I come from Niger NIGERIA";

int \*result;

result= strncmp(str1,str2,10);

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

return 0;

}

c) #include<stdio.h>

#include<string.h>

int main()

{

 char str1[100]=" are you a Nigerian";

char str2[100]=" I come from Niger NIGERIA";

char str3[100]=" We are all Nigerians!";

char \*result;

result=strupr(str2);

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

return 0;

}

50a) #include<stdio.h>

#include<string.h>

int main()

{

char str1[100]="My name is Samuel Samuel,";

char str2[100]="I want to be a good programmer";

char \*result;

result=strncat(str1,str2,30);

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

return 0;

}

50b) #include<stdio.h>

#include<string.h>

int main()

{

char str1[100]= "My name is Samuel Samuel,";

char str2[100]= "I want to be a good programmer";

char \* result;

result = strnset(str1,'$',10);

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

return 0;

}

50c) #include<stdio.h>

#include<string.h>

int main()

{

char str1[100]= "My name is Samuel Samuel,";

char str2[100]= "I want to be a good programmer";

char \* result;

result = strlwr(str1);

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

return 0;

}

51) #include<stdio.h>

#include<string.h>

int main ()

{

char str [10][50],temp [50];

 printf("Enter 10 words: ");

 for(int i = 0; i < 10; ++i)

 {

 fgets(str[i], sizeof(str[i]), stdin);

 }

 for(int i = 0; i < 10; ++i)

 {

 for(int j = i +1; j < 10 ; ++j)

 {

 if(strcmp(str[i],str[j]) > 0)

 {

 strcpy(temp, str[i]);

 strcpy(str[i], str[j]);

 strcpy(str[j], temp);

 }

 }

}

printf("\n In the lexicographical order: \n");

for (int i = 0; i < 10; ++i)

{

fputs(str[i] , stdout);

}

return 0 ;

}

52) #include <stdio.h>

#include <string.h>

int main()

{

 char a[1000], b[1000];

 printf("Enter the first string \n ");

 gets(a);

 printf("Enter the second string \n ");

 gets(b);

 strcat(a, b);

 printf("String obtained on concatenation: %s \n", a);

 return 0;

}