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**18/Eng02/078**

**CSC 206**

**40)**

**A)**

#include<stdio.h>

int main()

{

 int i ,j;

 i=20;

 while(i<=50)

 {

 j=i;

 while(j<=200)

 {

 printf("%5d",j);

 j+=31;

 }

 printf("\n");

 i+=3;

 }

 return 0;

}

**B)**

#include <stdio.h>

int main()

 {

 int i, j, count=1;

 for(i = 20; i <=50 ; i+=3)

 {

 for(j = i; j <= 200; j += 31 )

 printf(" %5d", j);

 printf("\n");

 }

 return 0;

}

**41)A)**

#include<stdio.h>

int main()

{

 int i;

 for(i=1;i<=300;i++)

 {

 printf("\n");

 printf("%d",i);

 }

 return 0;

}

**B)**

#include<stdio.h>

int main()

{

 int i;

 for(i=1;i<=300;i++)

 {

 printf("%d, ",i);

 }

 return 0;

}

**42)**

#include<stdio.h>

int main()

{

 int num,i,j;

 printf("Enter any number\n");

 scanf("%d",&num);

 printf("Enter the range for the table\n");

 scanf("%d",&j);

 printf("The multiplication table for %d is:\n",num);

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

 {

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

 printf("\n");

 }

 return 0;

}

**43)**

#include<stdio.h>

int main()

{

 int n,i,j,sum=0;

 printf("Enter your first number:\n");

 scanf("%d",&i);

 printf("Enter your last number:\n");

 scanf("%d",&n);

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

 {

 sum +=j;

 }

 printf("sum of numbers between %d and %d is = %d ",i,n,sum);

 return 0;

}

**44)**

#include <stdio.h>

int main()

{

 int n, i, flag =1;

 printf("Enter a number: \n");

 scanf("%d", &n);

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

 {

 if (n % i == 0)

 {

 flag = 0;

 break;

 }

 }

 if (flag == 1) {

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

 }

 else {

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

 }

 return 0;

}

**45)**

#include <stdio.h>

int main()

{

 int i, j;

 printf("\n Multiplication Table of 1 and 10 are: \n");

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

 {

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

 {

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

 }

 printf("\n ==========\n");

 }

 return 0;

}

**46)**

#include<stdio.h>

int main()

{

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

 for(i=4;i>-1;i--)

 {

 printf("\n%d",arr[i]);

 }

 return 0;

}

**47)**

#include <stdio.h>

int main()

{

int \*ptr1, \*ptr2, i, j;

printf("Enter numbers: ");

scanf("%d%d", &i, &j);

ptr1 = &i;

ptr2 = &j;

printf("I’s address = %p\n", ptr1);

printf("j’s address = %p\n", ptr2);

printf("Ptr1’s content = %d\n", \*ptr1);

printf("Ptr2’s content = %d\n", \*ptr2);

printf("Ptr1’s address = %p\n", &ptr1);

printf("Ptr2’s address = %p\n", &ptr2);

return 0;

 }

**48)**

#include<stdio.h>

int main()

{

 float i;

 printf("Enter any float value: ");

 scanf("%f",&i);

 printf("integer value of %f is %d",i,(int)i);

 return 0;

}

**49)a)**

#include<stdio.h>

int main()

{

 char str1[50]="are You NIGERIAN ";

 char str2[50]="I Come from Niger";

 int \*result;

 result=strcmp(str1,str2);

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

 return 0;

}

**b)**

#include<stdio.h>

int main()

{

 char str1[50]="are You NIGERIAN ";

 char str2[50]="I Come from Niger";

 int \*result;

 result=strncmp(str1,str2,1);

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

 return 0;

}

**c)**

#include<stdio.h>

int main()

{

 char str1[50]="are You NIGERIAN ";

 char str2[50]="I Come from Niger";

 char \*result;

 result=strupr(str2);

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

 return 0;

}

**50)a)**

#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=strcat(str1,str2);

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

 return 0;

}

**b)**

#include<stdio.h>

int main()

{

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

 strset(str1,'$');

 printf("result after strset is:%s",str1);

 return 0;

}

**c)**

#include<stdio.h>

int main()

{

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

 strlwr(str1);

 printf("result after strlwr is:%s",str1);

 return 0;

}

**51)**

#include<stdio.h>

#include<string.h>

int main()

{

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

 int i,j;

 printf("Enter 10 Words:\n");

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

 scanf("%s[^\n]",str[i]);

 for(i=0;i<9;i++)

 {

 for(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("\nIn lexicographical order: \n");

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

 puts(str[i]);

 return 0;

}

**52)**

#include<stdio.h>

#include<string.h>

int main()

{

 char str1[100]="My name is Alvin ";

 char str2[100]="I'd like to be a good programmer";

 char \*result;

 result=strncat(str1,str2,10);

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

 return 0;

}