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18/sci01/092

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("\n\n In 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 KingDavid ";
    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;
}

```