

**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 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;
}
```

