TOOBA FATIMA

CS#22056

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Answer 1:
While loop:
#include <stdio.h>
int main() {
int n,i=1,sum=0;
printf("enter an integer number\n");
scanf("%d", &n);
while (i<=n){
 if (i%2 !=0) {
   sum=sum +i;
   printf("the odd numbers are:%d\n",i);
  }
  i++;
}
printf("sum f all odd number:%d\n",sum);
return 0;
}
FOR LOOP;
#include <stdio.h>
int main() {
```

```
int n,i,sum=0;
printf("enter an integer number\n");
scanf("%d", &n);
for (i=1;i<=n;i++) {
  if (i%2 !=0) {
   sum=sum +i;
   printf("the odd numbers are:%d\n",i);
  }
}
printf("sum f all odd number:%d\n",sum);
return 0;
DO WHILE;
#include <stdio.h>
int main() {
int n,i=1,sum=0;
printf("enter an integer number\n");
scanf("%d", &n);
 do {
  if (i%2 !=0) {
   sum=sum +i;
   printf("the odd numbers are:%d\n",i);
  }
```

```
i++;
}
while (i<=n);
 printf("sum f all odd number:%d\n",sum);
return 0;
}
Answer#2:
#include <stdio.h>
int main() {
int i,j,k;
for (i=1;i<=3;i++){
   for (j=3;j>i;j--)
   {
     printf(" ");
   }
   for (k=1;k<=i;k++)
   {
       printf("* ");
     }
   printf("\n");
```

}

```
return 0;
}
Answer#3
#include <stdio.h>
int main(){
 char s1[] = "default", s2[] = "default";
 printf("Enter the first string: ");
 scanf("%s", &s1);
 printf("Enter the second string: ");
 scanf("%s", &s2);
 int i;
 for(i = 0; s1[i]==s2[i] && s1[i]!='0'; i++);
 printf("%d", s1[i] - s2[i]);
 return 0;
}
Answer#4
#include <stdio.h>
#include<ctype.h>
#include<string.
int main(){
  int i=0;
  char str[200],res[200];
  printf("Enter the string: ");
  scanf("%[^\n]s", &str);
  printf("%s\n",str);
  for(i=0;str[i]!='\0';i++)
```

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{
    if(isupper(str[i]))
       res[i]=tolower(str[i]);
     else if(islower(str[i]))
       res[i]=toupper(str[i]);
     else
       res[i] = str[i];
  }
  printf("%s");
  return 0;
}
Answer#5
#include <stdio.h>
int main(){
  int len, count;
  printf("Enter the length of an array: ");
  scanf("%d", &len);
  int arr[len];
  for(int i = 0; i < len; i++){
    printf("Enter element#%d: ",i+1);
    scanf("%d",&arr[i]);
  }
  printf("The unique elements in your array are:\n");
  for(int i = 0; i<len; i++){
    count = 0;
    for(int j = 0; j<len; j++)
       if(arr[i]==arr[j])
```

```
count++;
    if(count==1)
      printf("%d ", arr[i]);
  }
  return 0;
}
Answer#6
#include <stdio.h>
int main(){
  struct Distance d1, d2;
  printf("Enter the ft and inch of the first distance: ");
  scanf("%d %d", &d1.ft, &d1.inch);
  printf("Enter the ft and inch of the second distance: ");
  scanf("%d %d", &d2.ft, &d2.inch);
  printf("The total distance is: %d'%d\n", d1.ft+d2.ft, d1.inch+d2.inch);
  return 0;
}
```