Assignment - 22

① int main()
{
int i=0, j=0;
char *str, c;
str =(char *)malloc(sizeof(char));
printf("enter sterting");
while(c != '\n')
{
c=getc(stdin)
j++
str = (char*) realloc(str, j*sizeof(c
str[i]=c;
i++
}
str[i]='\0';
printf("%s", str);
free(str);
}

(2)
```
#include<stdio.h>
int main()
{
    int n, i, j, *p, sum=0;
    printf("Enter a number");
    scanf("%d", &n);
    p = (int*) calloc(n, sizeof(int));
    printf("enter array");
    for(i=0; i<n; i++)
        &int arr[n];
    for(i=0; i<n; i++)
        scanf("%d", &arr[i]);
    printf("Entered value are");
    for(i=0; i<n; i++)
        printf("%d\t", sum+=arr[i]);
    free(p);
}
```

(3)
```
#include<stdio.h>
int main()
{
    int n, i, *p, sum=0;
    printf("Enter a number");
    scanf("%d", &n);
    p = (int*) malloc(n*(sizeof(int)));
    printf("Enter numbers");
    for(i=0; i<n; i++)
        scanf("%d", (p+i));
```

```
for (i=0; i<n; i++)
    sum = sum + *(p+i);
printf("sum = %d", sum);
free(p);
return 0;
}
```

④

```
#include <stdio.h>
int main()
{
    int n, i, d;
    char ch[40];
    char * ps;
    printf("enter a string");
    fgets(ch, 40, stdin);
    d = strlen(ch) - 1;
    p = (char*) malloc(d * sizeof (char));
    strcpy(p, ch);
    printf("print string\n");
    printf("%s", p);
    free(p);
}
```

(5)
```
#include<stdio.h>
int main()
{
    int i, n, sum=0;
    printf("enter a number");
    scanf("%d", &n);
    int *p;
    p=(int*)malloc(n* sizeof(int));
    for(i=0; i<n; i++)
        scanf("%d", p+i);
    for(i=0; i<n; i++)
        sum = sum+*(p+i);
    printf("%d", sum);
    free(p);
    return 0;
}
```

(6)
```
int i, j, *p, n;
printf("enter a number");
scanf("%d", &n);
p = (int*)malloc(n*sizeof(int));
printf("enter a array");
for(i=0; i<n; i++)
    scanf("%d", &p[i]);
for(int i=0; i<n; i++)
{
    j= p[0]
```

```
    if (P[i] < P[j])
        j = P[i];
}
printf("%d", j);
return 0;
}
```

⑦

```
#include <stdio.h>
int main()
{
    int i, n, *p;
    printf("enter a number");
    scanf("%d", &n);
    p = (int*) malloc(n * sizeof(int));
    p = j;
    for (i=0; i<n; i++)
    {
        scanf("%d" p+i);
    }
    for (i=0; i<n; i++)
    {
        printf("%d", *(p+i));
    }
    free(p);
}
```

(8)
```
int main()
{
    int *ptr;
    ptr = (int*) malloc (sizeof(int));
    *ptr = 10;
    printf("Before free %d\n", *ptr);
    free(ptr);
    printf("After free %d ", *ptr);
    return 0;
}
```

(9)
```
int main()
{
    char *str, c;
    int i=0; j=1;
    str = (char*) malloc (size of (char));
    printf("enter storting");
    while (c != '\n')
    {
        c = getc(stdin);
        j++;
        str (char*) realloc (str, j* sizeof (char));
        str[i] = c;
        i++
    }
    str[i] = '\0';
```

```
if (str == NULL)
{
    printf("memory allocation is failed");
    return 0;
}
printf("%os", str);
free(str);
return 0;
}
```

(10)

```
int main()
{
    int i, j, *ptr, n;
    printf("enter a number");
    scanf("%od", &n);
    ptr = (int*) malloc(n * sizeof(int));
    for (i=0; i<n; i++)
    {   scanf("%d", ptr+i);
    }
    for (i=0; i<n-1; i++)
    {
        for(j=i+1; j<n; j++)
        {
            If(*(ptr+i) > *(ptr+j))
            {
                int temp;
                temp = *(ptr+i);
                *(ptr+i) = *(ptr+j);
                *(ptr+j) = temp;
```

```
    }
  }
}
for(i=0; i<n; i++)
{ if(i=n-1)
    printf("%od", *(ptr+(n-1)));
  if(i=0)
    printf("%od", *(ptr));
  return 0;
}
}
```