Week-2
0-7

Date ____/____/____
Page ____
Puffin

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#include<stdio.h>
#include<stdlib.h>
int main()
{
    int a, stu[1000], n, s1[500], s2[500], s3[500], i, i1=0,
    i2=0, i3=0, a1, a2, a3, j, k, d, h, y, z, u1, y1, z1,
    u2, y2, z2;
    printf("Enter number of students: ");
    scanf("%d", &n);
    for(i=0; i<n; i++)
    {
        printf("\n\nEnter your id: ");
        scanf("%d", &stu[i]);
        printf("1-Internet of Things\n2-Advanced Java and
                J2EE\n3-Advanced Data structures\n");
        printf("Choose from the above electives: ");
        scanf("%d", &a);
        switch(a)
        {
            case 1:
                s1[i1] = stu[i];
                i1++;
                printf("Number of students for elective 1 till
                        now: %d", i1);
                break;
            case 2:
                s2[i2] = stu[i]
                i2++;
                printf("Number of student for elective2 till
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        now: %d", i2);
    break;
case 3:
    s3[i3] = stu[i];
    i3++;
    printf("Number of students for elective 3 till
            now: %d", i3);
    break;
    break;
default:
    printf("enter valid choice");
    break;
}
}
printf("\nTotal number of students in each elective
        is \n1- %d\n2- %d\n3- %d\n", i1, i2, i3);
printf("\n Students in elective 1 are-");
for(x=0; x<i1; x++)
{
    printf("%d\n", s1[x]);
}
printf("\n Students in elective 2 are-");
for(y=0; y<i2; y++)
{
    printf("%d\n", s2[y]);
}
printf("\n students in elective 3 are-");
for(z=0; z<i3; z++)
{
    printf("%d\n", s3[z]);
}
```

```
if (i1<30)
{
  for (j=0; j<i1; j++)
  {
    printf("\n Internet of Things will not be floated
    due to lack of students \n Please choose -
  scanf("%d", &a1);
  switch(a1)
  {
    case 1:
      s2[i2] = s1[j];
      i2++;
      break;
    case 2:
      s3[i3] = s1[j];
      i3++;
      break;
    default:
      printf("Enter valid choice");
      break;
  }
}
printf("\n Now total students in \n1- %d \n2- %d \n", i2, i3);
printf("\n students in elective 1 are - ");
for (z1=0; z1<i3; z1++)
{
  printf("%d \n", s3[z1]);
}
}
```

```
else if (i2<30)
{
  printf("\n Advanced Java and J2EE will not be
      floated \n")
  for(k=0;k<i1;k++)
  {
    printf("Student with id %d", o2[k]);
    switch(a2)
    {
      case 1:
        o1[i1]=o2[k];
        i1++;
        break;
      case 2:
        o3[i3]=s2[k];
        i3++;
        break;
      default:
        printf("Enter valid choice");
        break;
    }
}
printf("\n Now total students \n1-%d\n%d\n", i1, i3);
printf("\n students in elective 2 are-");
for(z2=0;z2<i3;z2++)
{
  printf("%d\n", o3[z2]);
}
}
```

```
else if(i3<30)
{
    printf("\nAdvanced Data Structure will not be
            floated\n");
    for(i=0;i<i3;i++)
{
    printf("Student with id %d ",s3[i]);
    switch(a3)
{
    case 1:
      s1[i1]=s3[i];
      i1++;
      break;
   case 2:
      s2[i2]=s2[i];
      i2++;
      break;
   default:
      printf("Enter valid choice");
      break;
    }
}
printf("\n students in elective 1 are-");
for(u1=0;u1<i1;u1++)
{
    printf("%d\n",s1[u1]);
}
return 0;
}
```