Program No.-5

Resource Allocation Graph

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PROGRAM---

```
#include
<stdio.h>
#include
<string.h>

int main()
{
   int p, r;
   printf("Enter the number of processes:
   "); scanf("%d", &p);
   printf("Enter the number of resources:
   "); scanf("%d", &r);
   int pra[20][100];
   int prr[20][100];
   for (int i = 0; i < p; ++i)
   {
      printf("Enter allocated processes for p%d\n", i
      + 1); printf("Enter 0 for No and 1 for Yes\n");
      for (int j = 0; j < r; ++j)
```

```
    {
        printf("R%d: ", j + 1);
        scanf("%d",
        &pra[i][j]);
    }
    printf("Enter requesting resources for p%d\n", i
    + 1); printf("Enter 0 for No and 1 for Yes\n");
    for (int j = 0; j < r; ++j)
    {
        printf("R%d: ", j + 1);
        scanf("%d",
        &prr[i][j]);
    }
}

printf("\n\t Allocated");
for (int i = 0; i < r; ++i)
    printf("\t");
printf("Requesting\n\t");
for (int i = 0; i < r; ++i)
    printf("R%d\t", i +
1); printf("|\t");
for (int i = 0; i < r; ++i)
    printf("R%d\t", i +
    1);
printf("\n");
```

```
    for (int i = 0; i < p; ++i)
    {
       printf("\nP%d\t", i +
       1); for (int j = 0; j < r;
       ++j)
       {
          printf("%d\t", pra[i][j]);
       }
       printf("\t");
       for (int j = 0; j < r; ++j)
       {
          printf("%d\t", prr[i][j]);
       }
    }
    return 0;
}
```

OUTPUT—