

Earn Value Estimation

CODE:

```
#include<stdio.h>

int main()
{
    float ac,ev,pv,spi,bac,etc,vac,per,cv,sv,cpi,eac;
    printf("Enter Budget at Completion-->");
    scanf("%f",&bac);
    printf("Enter Percentage completed after 3 days-->");
    scanf("%f",&per);
    printf("Enter Actual Cost-->");
    scanf("%f",&ac);
    pv=bac*(.75);
    ev=bac*(per);
    spi=ev/pv;
    printf("Planned Value-->%f\n",pv);
    printf("Earned Value-->%f\n",ev);
    printf("Scheduled Performance Index-->%f\n",spi);
    cv=ev-ac;
    printf("Cost Variance-->%f\n",cv);
    sv=ev-pv;
    printf("Schedule Variance-->%f\n",sv);
```

```
    cpi=ev/ac;
    printf("Cost Performance Index-->%f\n",cpi);
    eac=ac+(bac-ev)/cpi;
    printf("Estimate at Completion-->%f\n",eac);
    etc=eac-ac;
    printf("Estimate to complete-->%f\n",etc);
    vac=bac-eac;
    printf("Variance at Completion-->%f\n",vac);
    return 0;
}
```

OUTPUT:

```
(base) Aadhityas-MacBook-Air:se aadhitya$ gcc eva.c
(base) Aadhityas-MacBook-Air:se aadhitya$ ./a.out
Enter Budget at Completion-->5000
Enter Percentage completed after 3 days-->.8
Enter Actual Cost-->4200
Planned Value-->3750.000000
Earned Value-->4000.000000
Scheduled Performance Index-->1.066667
Cost Variance-->-200.000000
Schedule Variance-->250.000000
Cost Performance Index-->0.952381
Estimate at Completion-->5250.000000
Estimate to complete-->1050.000000
Variance at Completion-->-250.000000
(base) Aadhityas-MacBook-Air:se aadhitya$ █
```