

TALENT HUNT

Debugging Finals – Python

1. Odd or even

```
num = int(input("Enter a number: "))  
if(num/2)  
print("Even number")  
else  
print("Odd number")
```

Sample Output

Sample Output 0:

Enter a number:5
Odd number

Sample Output 1:

Enter a number:8
Even number

2. Swapping variables value

```
temp=0
x = input('Enter first number:')
y = input('Enter second number:')
y = temp
temp = x
x = y
print('After swapping, first number =",x)
print("After swapping, second number =",y)
```

Sample Output

Sample Output 0:

Enter first number:10

Enter second number:5

After swapping, first number =5

After swapping, second number =10

3. Factorial

```
fact=0
number=int(input("Enter a number"))
for i in range(1,n+1):
    fact=fact*i
print("Factorial of",number,"is:",fact)
```

Sample Output

Sample Output 0:

Enter a number:5

Factorial of 5 is 120

4. Pattern

```
for i in range(1,6):
    for k in range(6,1,-1):
        print("",end="")
        for j in range(1,i):
            print("*",end="")
        print(end="")
```

Sample Output

Sample Output 0:

```
  *
 * *
* * *
* * * *
* * * * *
```

5. Palindrome

```
s=input("Enter a string:")
flag=0
for i in range(len(str)//2):
    if str[i] != str[len(str)-i]:
        flag=0
        break
if flag==0:
    print(s,"is a palindrome")
else:
    print(s,"is not a palindrome")
```

Sample Output

Sample Output 0:

Enter a string:malayalam
malayalam is a palindrome

Sample Output 1:

Enter a string:Hello
Hello is not a palindrome

6. Prime Number

```
flag=0
n=int(input("Enter a positive integer:"))
if flag==0 and flag==1
flag=0
else
for i in range(2,n)
if n%i==0
flag=0
break
if flag=1
print(n,"is a prime number")
else
print(n,"is not a prime number")
```

Sample Output

sample output 0:

Enter a positive integer: 7
7 is a prime number

sample output 1:

Enter a positive integer: 8
8 is not a prime number